

JVC

SERVICE MANUAL

LCD FLAT TELEVISION

LT-32WX84 /K

BASIC CHASSIS

SB5



I'Art™ *Palette*
D.I.S.T.
Digital Image Scaling Technology
BBE

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SPECIFICATION

| Items | | Contents |
|-------------------------------------|---|--|
| Dimensions (W × H × D) | | 83.3cm × 63.8 cm × 26.0 cm [Included stand] 83.3cm × 56.9 cm × 9.7 cm [TV only] |
| Mass | | 21.4 kg [Included stand] 18.6 kg [TV only] |
| Power Input | | AC220V , 60Hz |
| Power Consumption | | 223W (Max) |
| TV RF System | | CCIR (M) |
| Color System | | NTSC |
| Sound System | | BTSC (Multi Channel Sound) |
| Teletext System | | Closed caption |
| TV Receiving Channels and Frequency | VHF Low VHF High UHF CATV | 02ch~06ch : 54MHz~88MHz 07ch~13ch : 174MHz~216MHz 14ch~69ch : 470MHz~806MHz 54MHz~804MHz Low Band : 02~06, A-8 by 02~06&01 High Band : 07~13 by 07~13 Mid Band : A~I by 14~22 Super Band : J~W by 23~36 Hyper Band : W+1~W+28 by 37~64 Ultra Band : W+29~W+84 by 65~94, 100~125 Sub Mid Band : A4~A1 by 96~99 |
| TV / CATV Total Channel | | 180 Channels |
| Intermediate Frequency | Video IF Sound IF | 45.75 MHz 41.25 MHz (4.5MHz) |
| Color Sub Carrier | | 3.58 MHz |
| LCD panel | | 32V-inch wide aspect (15:9) |
| Screen Size | | Diagonal : 80.2cm (H:41.2cm × V : 68.7cm) |
| Display Pixels | | Horizontal : 1280 dots × Vertical : 768 dots (W-XGA) |
| Audio Power Output | | 10W + 10W |
| Speaker | | 6.6cm, round type × 2 (Oblique corn) |
| Antenna terminal (VHF/UHF) | | F-type connector, 75Ω unbalanced, coaxial |
| Video / Audio input Input-1/2/3 | Component Video [Input-1] 1125i / 750p 525p / 525i S-Video [Input-1/2] Video Audio | RCA pin jack × 3 Y : 1V (p-p) (Sync signal: 0.35V(p-p), 3-value sync.), 75 Ω Pb/Pr : ±0.35V(p-p), 75 Ω Y : 1V (p-p), Positive (Negative sync provided), 75 Ω Pb/Pr : 0.7V(p-p), 75 Ω Mini-DIN 4 pin × 2 Y: 1V (p-p), Positive (Negative sync provided), 75 Ω C: 0.286V (p-p) (Burst signal), 75 Ω 1V (p-p), Positive (Negative sync provided), 75 Ω, RCA pin jack × 3 500mV (rms), High impedance, RCA pin jack × 6 |
| Digital-in | Video Audio | DVI-D 24-pin connector × 1 (Digital-input terminal is not compatible with computer signal) 500mV (rms), Low impedance, RCA pin jack × 2 |
| Monitor output | S-Video Video Audio | Mini-DIN 4 pin × 1 Y: 1V (p-p), Positive (Negative sync provided), 75 Ω C: 0.286V (p-p) (Burst signal), 75 Ω 1V (p-p), Positive (Negative sync provided), 75 Ω, RCA pin jack × 1 500mV (rms), Low impedance, RCA pin jack × 2 |
| Headphone | | 3.5mm stereo mini jack × 1 |
| Remote Control Unit | | RM-C13G (AA/R6/UM-3 battery × 2) |

Design & specifications are subject to change without notice.

SECTION 1

PRECAUTION

1.1 SAFETY PRECAUTIONS

- (1) The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- (2) Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- (3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (Δ) on the parts list in Service manual.** The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.
- (4) **Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.**
Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (\perp) side GND, the ISOLATED (NEUTRAL) : (\equiv) side GND and EARTH : (\oplus) side GND.
Don't short between the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND and never measure the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND at the same time with a measuring apparatus (oscilloscope etc.). If above note will not be kept, a fuse or any parts will be broken.
- (5) If any repair has been made to the chassis, it is recommended that the PDP voltage setting should be checked or adjusted.
- (6) When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

(7) Isolation Check (Safety for Electrical Shock Hazard)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screw heads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

a) Dielectric Strength Test

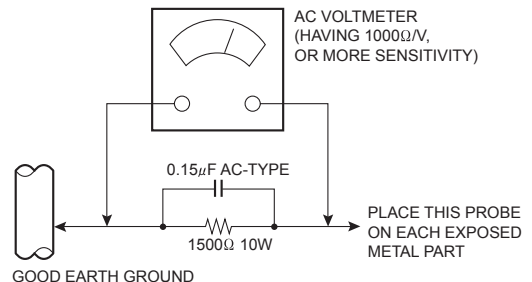
The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 3000V AC (r.m.s.) for a period of one second. (. . . Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.) This method of test requires a test equipment not generally found in the service trade.

b) Leakage Current Check

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.). However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

Alternate Check Method

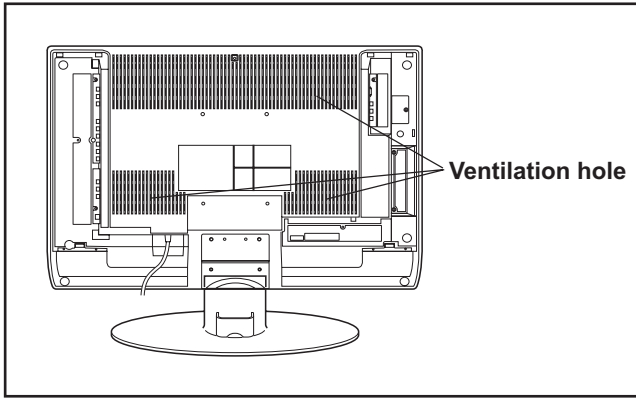
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 Ω per volt or more sensitivity in the following manner. Connect a 1500 Ω 10W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.). However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).



1.2 INSTALLATION

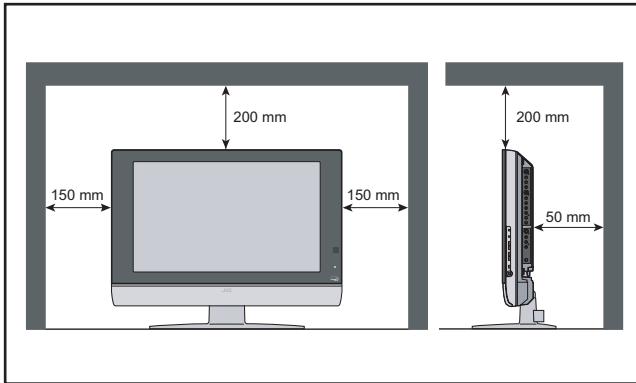
1.2.1 HEAT DISSIPATION

If the heat dissipation vent behind this unit is blocked, cooling efficiency may deteriorate and temperature inside the unit will rise. The temperature sensor that protects the unit will be activated when internal temperature exceeds the pre-determined level and power will be turned off automatically. Therefore, please make sure pay attention not to block the heat dissipation vent as well as the ventilation outlet behind the unit and ensure that there is room for ventilation around it.



1.2.2 INSTALLATION REQUIREMENTS

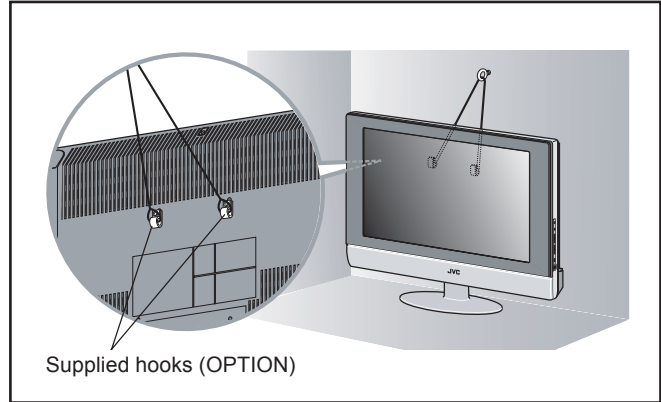
Ensure that the minimal distance is maintained, as specified below, between the unit with and the surrounding walls, as well as the floor etc. Install the unit on stable flooring or stands. Take precautionary measures to prevent the unit from tipping in order to protect against accidents and earthquakes.



1.2.3 INSTALLATION REQUIREMENTS

To ensure safety in an emergency such as an earthquake, and to prevent accidents, ensure that measures are taken to prevent the TV dropping or falling over.

Use the supplied screws to firmly attach the supplied hooks (OPTION) to the back of the TV, and use commercially available cord to fix the TV to rigid components such as walls and columns.



1.2.4 NOTES ON HANDLING

(1) WHEN TAKING UNIT OUT OF A PACKING CASE

When taking the unit out of a packing case, do not grasp the upper part of the unit. If you take the unit out while grasping the upper part, the LCD PANEL may be damaged because of a pressure. Instead of grasping the upper part, put your hands on the lower backside or sides of the unit.

(2) AS FOR PRESSING OR TOUCHING A SPEAKER

Be careful not to press the opening of the speaker in the lower part of the unit and around them since the decorative sheet on the surface of the openings may be deformed.

1.3 HANDLING LCD PANEL

1.3.1 PRECAUTIONS FOR TRANSPORTATION

When transporting the unit, pressure exerted on the internal LCD panel due to improper handling (such as tossing and dropping) may cause damages even when the unit is carefully packed. To prevent accidents from occurring during transportation, pay careful attention before delivery, such as through explaining the handling instructions to transporters.

Ensure that the following requirements are met during transportation, as the LCD panel of this unit is made of glass and therefore fragile:

(1) **USE A SPECIAL PACKING CASE FOR THE LCD PANEL**

When transporting the LCD panel of the unit, use a special packing case (packing materials). A special packing case is used when a LCD panel is supplied as a service spare part.

(2) **ATTACH PROTECTION SHEET TO THE FRONT**

Since the front (display part) of the panel is vulnerable, attach the protection sheet to the front of the LCD panel before transportation. Protection sheet is used when a LCD panel is supplied as a service spare part.

(3) **AVOID VIBRATIONS AND IMPACTS**

The unit may be broken if it is toppled sideways even when properly packed. Continuous vibration may shift the gap of the panel, and the unit may not be able to display images properly. Ensure that the unit is carried by at least 2 persons and pay careful attention not to exert any vibration or impact on it.

(4) **DO NOT PLACE EQUIPMENT HORIZONTALLY**

Ensure that it is placed upright and not horizontally during transportation and storage as the LCD panel is very vulnerable to lateral impacts and may break. During transportation, ensure that the unit is loaded along the traveling direction of the vehicle, and avoid stacking them on one another. For storage, ensure that they are stacked in 2 layers or less even when placed upright.

1.3.2 OPTICAL FILTER (ON THE FRONT OF THE LCD PANEL)

(1) Avoid placing the unit under direct sunlight over a prolonged period of time. This may cause the optical filter to deteriorate in quality and color.

(2) Clean the filter surface by wiping it softly and lightly with a soft and lightly fuzz cloth (such as outing flannel).

(3) Do not use solvents such as benzene or thinner to wipe the filter surface. This may cause the filter to deteriorate in quality or the coating on the surface to come off. When cleaning the filter, usually use the neutral detergent diluted with water. When cleaning the dirty filter, use water-diluted ethanol.

(4) Since the filter surface is fragile, do not scratch or hit it with hard materials. Be careful enough not to touch the front surface, especially when taking the unit out of the packing case or during transportation.

1.3.3 PRECAUTIONS FOR REPLACEMENT OF EXTERIOR PARTS

Take note of the following when replacing exterior parts (REAR COVER, FRONT PANEL, etc.):

(1) Do not exert pressure on the front of the LCD panel (filter surface). It may cause irregular color.

(2) Pay careful attention not to scratch or stain the front of the LCD panel (filter surface) with hands.

(3) When replacing exterior parts, the front (LCD panel) should be placed facing downward. Place a mat, etc. underneath to avoid causing scratches to the front (filter surface).

SECTION 2

SPECIFIC SERVICE INSTRUCTIONS

2.1 FEATURES

- New chassis design enable use of an interactive on screen control.
- MOTION COMPENSATION : With this function, the seamless reproduction of dynamic motion on the screen has been realized.
- Built-in 3 dimension Y/C separate circuit.
- Receive DTV broadcast (1125i / 750p / 525p / 525i)
- Built-in HDCP / Component (Y / Pb / Pr) input.
- Built-in Hyper Sound, BBE circuit.
- DIST is a digital high-definition image processing technology that converts various image input signals such as NTSC(525i), 525p, 750p, and 1125i into a format with the best resolution for a display device such as a plasma display panel, and displays high-definition images.

2.2 TECHNICAL INFORMATION

2.2.1 LCD PANEL

This unit uses the flat type panel LCD (Liquid Crystal Display) panel that occupies as little space as possible, instead of the conventional CRT (Cathode Ray Tube), as a display unit.

Since the unit has the two polarizing filter that are at right angles to each other, the unit adopts "normally black" mode, where light does not pass through the polarizing filter and the screen is black when no voltage is applied to the liquid crystals.

2.2.1.1 SPECIFICATIONS

The following table shows the specifications of this unit.

| Item | Specifications | Remarks |
|-----------------------------------|--|----------------------------|
| Maximum dimensions (W × H × D) | 76.4cm × 46.5cm × 3.8cm | |
| Weight | 8.0kg | |
| Effective screen size | Diagonal : 80.2cm (H:41.2cm × V : 68.7cm) | 32V type |
| Aspect ratio | 15:9 | |
| Drive device/ system | a-Si-TFT, active matrix system | |
| Resolution | Horizontally 1280 × Vertically 768 × RGB <W-XGA> | 2949120 dots in total |
| Pixel pitch (pixel size) | Horizontally:0.4425mm, Vertically:0.4425mm | |
| Displayed color | 16777216 colors | 256 colors for R, G, and B |
| Brightness | 470cd/m ² | |
| Contrast ratio | 500:1 | |
| Response time | 13ms | |
| View angle | Vertically 170°, horizontally 170° | |
| Surface Polarizer | Anti-Glare type | |
| Color Filter | Vertical stripe | |
| Backlight | Cold cathode fluorescent lamp × 16 | |
| Power Supply Voltage in LCD | 12V | |
| Power Supply Voltage in Backlight | 1290V (rms) | |

2.2.1.2 PIXEL FAULT

There are three pixel faults - bright fault , dark fault and flicker fault - that are respectively defined as follows.

(1) BRIGHT FAULT

In this pixel fault, a cell that should not light originally is lighting on and off.

For checking this pixel fault, input ALL BLACK SCREEN and find out the cell that is lighting on and off.

(2) DARK FAULT

In this pixel fault, a cell that should light originally is not lighting or lighting with the brightness twice as brighter as originally lighting.

For checking this pixel fault, input 100% of each R/G/B colour and find out the cell that is not lighting.

(3) FLICKER FAULT

In the pixel fault, a cell that should light originally or not light originally is flashing on and off.

For checking this pixel fault, input ALL BLACK SCREEN signal or 100% of each RGB colour and find out the cell that is flashing on and off.

2.2.2 MAIN MICRO COMPUTER (CPU) FUNCTION

| Pin No. | Pin name | I/O | Function |
|---------|---------------|-----|--|
| 1 | BS_RXD | O | Not used |
| 2 | MICON_V | I | Vertical sync for OSD / CLOSED CAPTION |
| 3 | LB_PRO | I | Low B protection detect [Detection : H] |
| 4 | NC | --- | Not used |
| 5 | /RST | I | Reset [Reset : L] |
| 6 | HDMI_INT | I | Not used |
| 7 | /TEST | I | 3.3V |
| 8 | OSD_YS | O | YS for OSD / CLOSED CAPTION |
| 9 | (DPCRST) | O | Not used |
| 10 | BS/DIN | O | Not used |
| 11 | (A_MU)(LED_5) | O | Not used |
| 12 | MICON_H | I | Horizontal sync for OSD / CLOSED CAPTION |
| 13 | (A_MU)(LED_4) | O | Not used |
| 14 | P46,OSDXI | --- | Not used |
| 15 | P45,OSDXO | --- | Not used |
| 16 | (SDA2) | I/O | Not used |
| 17 | AC_IN | I | AC power (60Hz) for time clock |
| 18 | (SCL2) | O | Not used |
| 19 | (TU_POW) | O | Not used |
| 20 | VCOI | I | LPF input |
| 21 | PDO | O | LPF output |
| 22 | /IP_RESET | O | Reset (L) [Reset : L] |
| 23 | OSD_YM | O | YM for OSD / CLOSED CAPTION |
| 24 | OSD_B | O | B signal output for OSD / CLOSED CAPTION |
| 25 | POW_LED | O | Lighting for power [Lighting : H] |
| 26 | OSD_G | O | G for OSD / CLOSED CAPTION |
| 27 | OSD_R | O | R for OSD / CLOSED CAPTION |
| 28 | VRE | I | Reference voltage |
| 29 | IP_ERR | I | AMDP program load |
| 30 | IREF | I | Reference current |
| 31 | COMP | I | Reference compare |
| 32 | AVDD | I | 3.3V |
| 33 | CLL | O | Not used |
| 34 | VREFLS | I | Reference voltage (For SUB CCD) |
| 35 | SUB_CCD | I | Not used |
| 36 | NC | --- | Not used |
| 37 | VSS | I | GND |
| 38 | MAIN_CCD | I | Not used |
| 39 | VREFHS | I | Standard voltage (For Main CCD) |
| 40 | CLH | I | Not used |
| 41 | VDD/VPP | I | 3.3V |
| 42 | CLKSW1 | O | IP clock switch [ON : L] |
| 43 | CLKSW2 | O | IP clock switch [ON : L] |
| 44 | ON_TIM | O | Not used |
| 45 | SBO01 | O | Port for writing on board |

| Pin No. | Pin name | I/O | Function |
|---------|-----------------|-----|---|
| 46 | SBD01 | I | Port for writing on board / Communication (XTD) for SUB CPU |
| 47 | SBT1 | I | Port for writing on board / Communication (RTD) for SUB CPU |
| 48 | HP_VOL | O | Headpone volume control (0V-3.3V) |
| 49 | /BS_RESET | O | Not used |
| 50 | HDMI_ASW | O | Not used |
| 51 | BS1.5CTL | O | Not used |
| 52 | ODU_OUT | O | Not used |
| 53 | 15/11_SW | O | Not used |
| 54 | ODU_PRO | O | Not used |
| 55 | BS_POW | --- | Not used |
| 56 | BS3.3CTL | O | Not used |
| 57 | AFT2 | I | Not used |
| 58 | /LOB_POW | O | Low B power control [Detection : H] |
| 59 | COMPULING | I | Not used |
| 60 | /POWERGOOD | I | Power condition check [ON : L] |
| 61 | MECHA_SW | I | Mechanical (POWER) swtich detection [Pussing : L] |
| 62 | /MAIN_POW | O | Main power control [ON : L] |
| 63 | NC | --- | Not used |
| 64 | (B1_POW) | O | Not used |
| 65 | AFT1 | --- | Not used |
| 66 | (X_RAY) | I | GND |
| 67 | (EE_CDS) | I | GND |
| 68 | KEY2 | I | Key scan data [ON : H] |
| 69 | KEY1 | I | Key scan data [ON : H] |
| 70 | SCL1 | O | I ² C bus clock (For Main memory) |
| 71 | SDA1 | I/O | I ² C bus data (For Main memory) |
| 72 | REMO | I | Remote control data |
| 73 | (AP_REQ)(LED_2) | O | Not used |
| 74 | VSS | I | GND |
| 75 | OSC2 | O | 4MHz oscillation for system clock |
| 76 | OSC1 | I | 4MHz oscillation for system clock |
| 77 | VDD | I | 3.3V |
| 78 | SCL0 | O | I ² C bus clock (For general) |
| 79 | (AP_CLK)(LED_1) | O | Not used |
| 80 | SDA0 | I/O | I ² C bus data (For general) |
| 81 | BSLK(D_CLOCK) | O | Not used |
| 82 | BS_TXD(D_DATA) | I | Not used |
| 83 | NC | --- | Not used |
| 84 | P_MU | O | Picture muting [Muting : H] |

2.2.3 SUB MICRO COMPUTER (CPU) FUNCTION

| Pin No. | Pin name | I/O | Function |
|---------|-----------|-----|---|
| 1 | (SYSTEM0) | I | GND |
| 2 | (SYSTEM3) | I | GND |
| 3 | AVCC | - | 5V |
| 4 | X2 | - | Not used |
| 5 | X1 | - | Not used |
| 6 | VCL | - | Internal down voltage |
| 7 | RES | I | Reset [Reset : L] |
| 8 | TEST | I | Operation test for SUB CPU |
| 9 | VSS | - | GND |
| 10 | OSC2 | O | 10MHz oscillation for system clock |
| 11 | OSC1 | I | 10MHz oscillation for system clock |
| 12 | VCC | - | 5V |
| 13 | NC | O | Not used |
| 14 | NC | O | Not used |
| 15 | BL_D2 | O | Back light 20ms delay for LCD panel [On:L] |
| 16 | BL_D1 | O | Back light 10ms delay for LCD panel [On:L] |
| 17 | I2C_STOP | O | Not used |
| 18 | BL_ON | O | Back light reset for LCD panel [Reset:L] |
| 19 | NC | O | Not used |
| 20 | NC | O | Not used |
| 21 | NC | O | Not used |
| 22 | NC | O | Not used |
| 23 | SDA1 | I/O | I ² C bus data (For Sub memory) |
| 24 | A.DIM | O | Not used |
| 25 | SCL1 | O | I ² C bus clock (For Sub memory) |
| 26 | SDA0 | I/O | I ² C bus data (For general) |
| 27 | SCL0 | O | I ² C bus clock (For general) |
| 28 | NC | O | Not used |
| 29 | NC | O | Not used |
| 30 | NC | O | Not used |
| 31 | NC | O | Not used |
| 32 | NC | O | Not used |
| 33 | NC | O | Not used |
| 34 | NC | O | Not used |
| 35 | NMI | I | Port for writing on board [Writning:L] |
| 36 | NC | O | Not used |
| 37 | (HD) | I | Not used |
| 38 | NC | O | Not used |
| 39 | (REMO) | I | Not used |
| 40 | NC | O | Not used |
| 41 | P85 | -/I | Not used |
| 42 | P86 | - | Not used |
| 43 | P87 | - | Not used |
| 44 | SCK3 | O | Port for writing on board |
| 45 | RXD | I | Port for writing on board |

| Pin No. | Pin name | I/O | Function |
|---------|--------------|-----|-----------------------------------|
| 46 | TXD | O | Port for writing on board |
| 47 | (PROTECTOR0) | I | Not used |
| 48 | NC | O | Not used |
| 49 | RXD2 | I | Port for communication (Main cpu) |
| 50 | TXD2 | O | Port for communication (Main cpu) |
| 51 | NC | O | Not used |
| 52 | (ACTIVE) | I | Not used |
| 53 | VD | I | Vertical sync |
| 54 | (REC_DET) | I | Not used |
| 55 | (PSS) | I | Not used |
| 56 | (ALARM) | I | Not used |
| 57 | (SYSTEM2) | I | Not used |
| 58 | (SYSTEM1) | I | Not used |
| 59 | (PROTECTOR1) | I | Not used |
| 60 | (AMP_PRO2) | I | Not used |
| 61 | (AMP_PRO1) | I | Not used |
| 62 | EE_CDS | I | Not used |
| 63 | (KEY_IN1) | I | Not used |
| 64 | (KEY_IN2) | I | Not used |

SECTION 3 DISASSEMBLY

3.1 DISASSEMBLY PROCEDURE

NOTE:

Since this model adopts a layer structure, follow the procedure below in disassembling this model.
Be careful enough not to damage or scratch parts.

3.1.1 REMOVING THE STAND

- (1) Remove the 2 screws [A], and remove the STAND COVER.
- (2) Remove the 4 screws [B], and remove the STAND.

3.1.2 REMOVING THE REAR COVER

- Remove the STAND.
 - (1) Remove the JACK COVER (L/R).
 - (2) Remove the 7 screws [C], 3 screws [D], and 2 screws [E] (12 screws in total).
 - (3) Remove the REAR COVER.

3.1.3 REMOVING THE REGULATOR PWB / COOLING FAN

- Remove the STAND.
- Remove the REAR COVER.
 - (1) Pull out the wire of COOLING FAN.
 - (2) Remove the 5 screws [F], and remove the FAN BRACKET.
 - (3) Remove the 2 screws [Y], and remove the COOLING FAN.
 - (4) Remove the REGULATOR PWB.

3.1.4 REMOVING THE RECEIVER PWB

- Remove the STAND.
- Remove the REAR COVER.
- Remove the FAN BRACKET.
 - (1) Remove the 2 screws [G] and 3 screws [H] (5 screws in total). Then, remove the TERMINAL BASE.
 - (2) Remove the 6 screws [J], and remove the RECEIVER PWB.

3.1.5 REMOVING THE FRONT CONTROL PWB CONTROL / FRONT SENSOR PWB

- Remove the STAND.
- Remove the REAR COVER.
 - (1) Remove the 2 screws [K], and remove the CONTROL KNOB.
 - (2) Remove the 2 screws [L], and remove the FRONT CONTROL PWB.
 - (3) Remove the FRONT SENSOR PWB.

3.1.6 REMOVING THE VIDEO PWB / MI-COM & DIST MODULE PWB

- Remove the STAND.
- Remove the REAR COVER.
- Remove the FAN BRACKET.
 - (1) Remove the 3 screws [M] and remove the JACK BASE.
 - (2) Remove the 5 screws [N] and remove the VIDEO PWB SHIELD.
 - (3) Remove the 2 screws [P], and remove the VIDEO PWB.
 - (4) Remove the 5 screws [R], and remove the VIDEO PWB BRACKET.
 - (5) Remove the 4 screws [S], and remove the MI-COM & DIST MODULE PWB from the VIDEO PWB BRACKET.

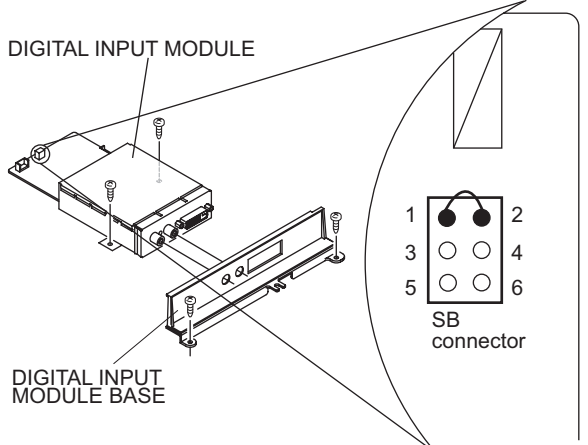
3.1.7 REMOVING THE POWER PWB

- Remove the STAND.
- Remove the REAR COVER.
- Remove the FAN BRACKET.
- Remove the RECEIVER PWB.
 - (1) Remove the 4 screws [T], and remove the RECEIVER PWB BRACKET.
 - (2) Remove the 1 screw [U], and remove the POWER CORD HOLDER.
 - (3) Remove the 5 screws [V], and 1 screw [W]. Then, remove the POWER PWB.
 - (4) Remove the 4 screws [X], and remove the CHASSIS BASE.

3.1.8 REMOVING THE DIGITAL INPUT MODULE PWB

- Remove the STAND.
- Remove the REAR COVER.
 - (1) Remove the 2 screws [Q], and remove the DIGITAL INPUT MODULE BASE.
 - (2) Remove the 2 screws [Z], and remove the DIGITAL INPUT MODULE PWB.

CAUTION AT DISASSEMBLY



The diagram illustrates the removal of the Digital Input Module. It shows the module being lifted from its base. A separate view shows the SB connector with pins 1 and 2 shorted together.

- Prior to disassembly, unplug the power cord from the AC outlet without fail. (Turn the power "off".)
- Short the SB connector [1] pin and [2] pin of the DIGITAL INPUT MODULE. (At the time of assembling)
- Before the rear panel is inserted into the cabinet, release the short-circuit between the SB connector [1] pin and [2] pin of the DIGITAL INPUT MODULE.
- After releasing the short-circuit between the SB connectors, do not turn the power on until the rear panel is inserted into the cabinet.
- Negligence in carrying out the above steps may cause the inactivation of the TV.

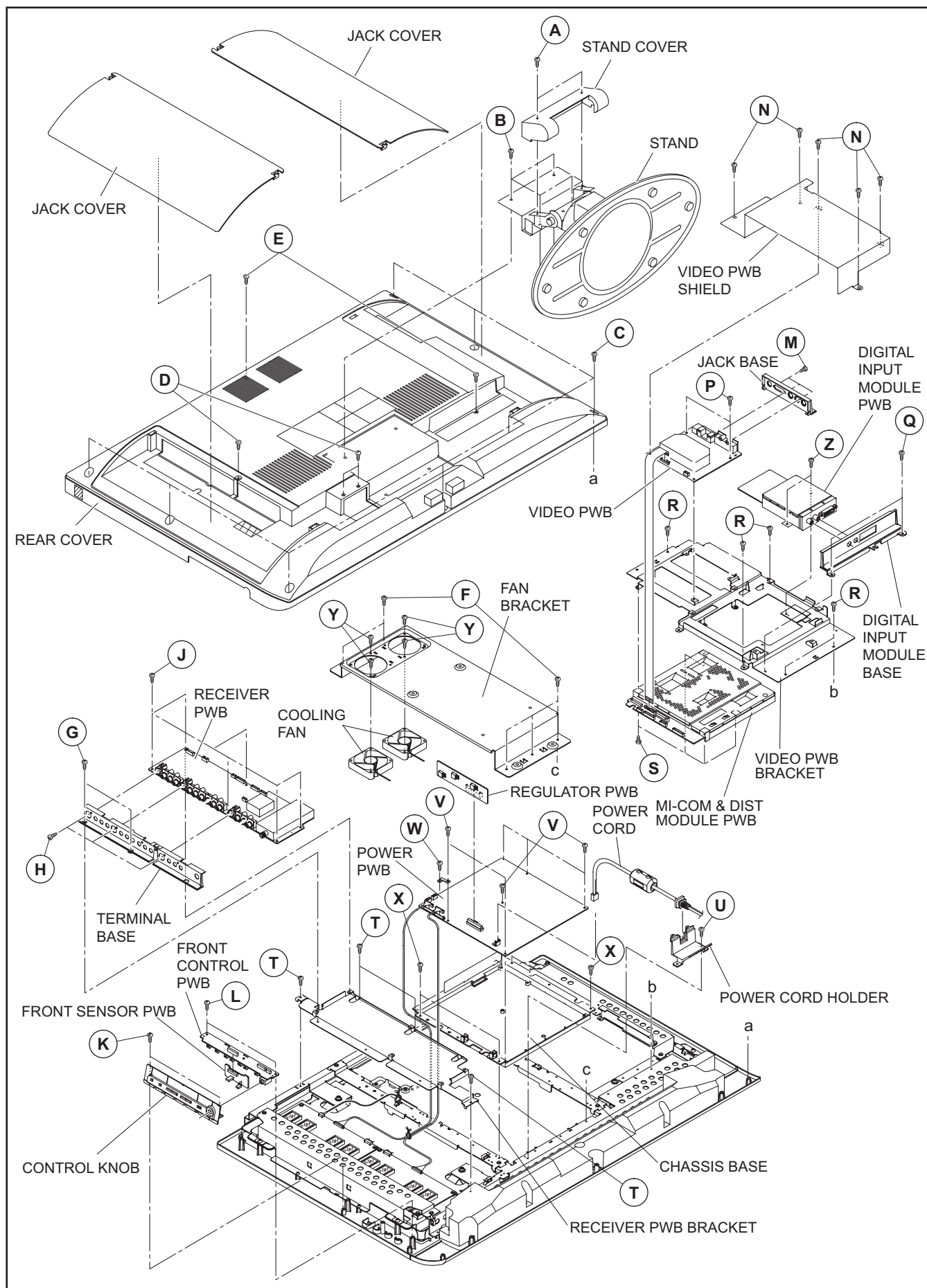


Fig.1

3.1.9 REMOVING THE SPEAKER

- Remove the STAND.
- Remove the REAR COVER.
- (1) Remove the 5 screws [a], and remove the SPEAKER BOX.
- (2) Remove the 4 screws [b], and remove the SPEAKER (L / R).
- (3) Remove the 4 screws [c], and remove the DUCT(L/R).

NOTE:

Since the speaker is attached in a certain direction, attach the speaker in the same correct direction as it has been attached.

3.1.10 REMOVING THE LCD PANEL UNIT

- Remove the STAND.
- Remove the REAR COVER.
- Remove the POWER CORD.
- Remove the RECEIVER PWB.
- Remove the FRONT CONTROL PWB.
- Remove the FRONT SENSOR PWB.
- Remove the VIDEO PWB.
- Remove the DIGITAL INPUT MODULE PWB.
- Remove the MI-COM & DIST MODULE PWB.
- Remove the POWER PWB.
- (1) Remove the 3 screws [d], the 2 screws [e] and the 2 screws [f] (7 screws in total). Then, remove the FRAME(R).
- (2) Remove the 3 screws [g], and the 2 screws [h] (4 screws in total). Then, remove the FRAME (L).
- (3) Remove the 3 screws [j]. Then, remove the CENTER FRAME.
- (4) Remove the 2 screws [k] and the 1 screw [m] (3 screws in total). Then, remove the TOP FRAME.
- (5) Remove the 4 screws [n], and the 2 screws [p] (6 screws in total). Then, remove the BOTTOM FRAME.
- (6) Remove the 8 screws [r]. Then, remove the TOP INVERTER UNIT and BOTTOM INVERTER UNIT.
- (7) Remove the 1 screw [q]. Then, remove the LCD PANEL UNIT.

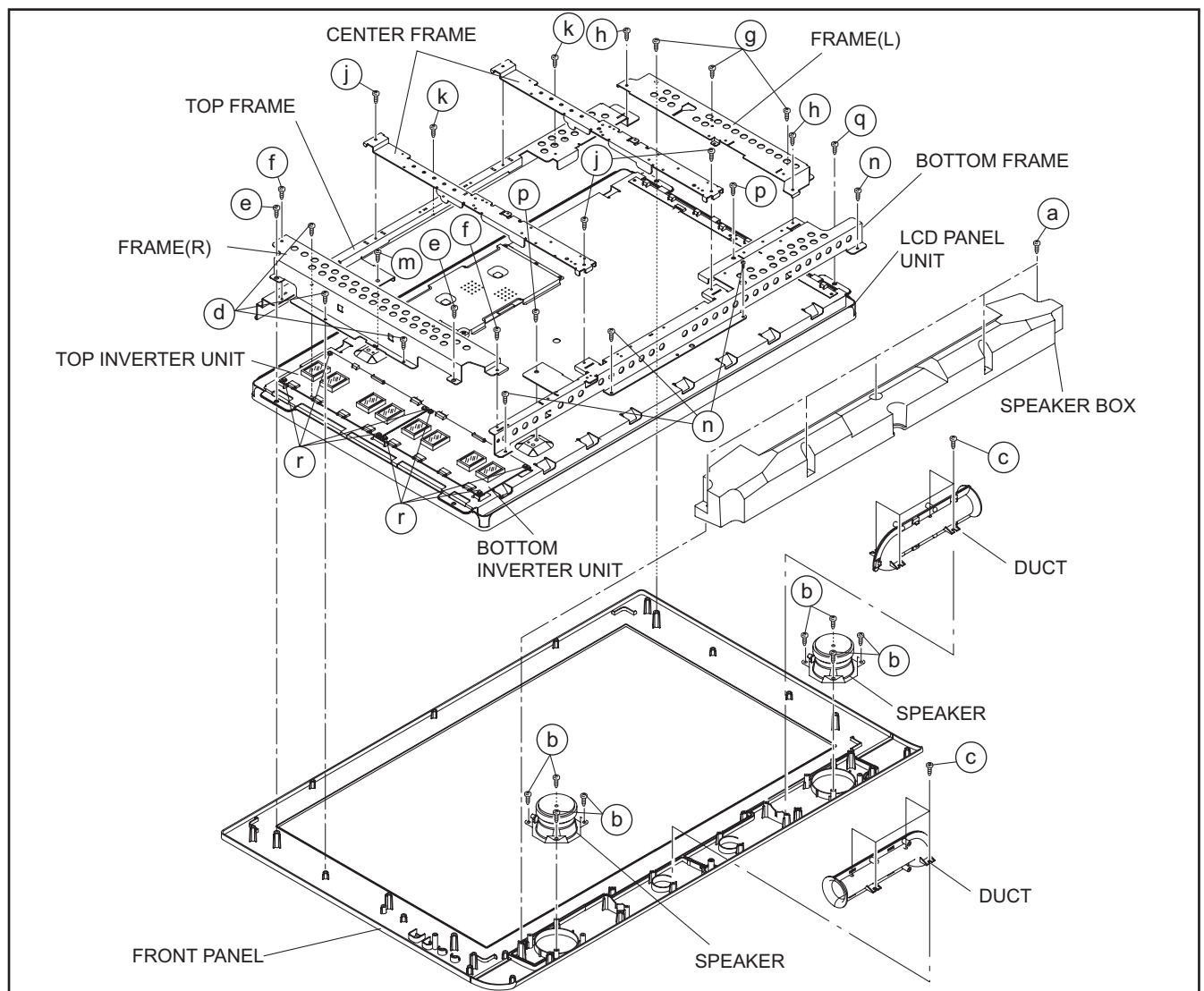


Fig.2

3.2 MEMORY IC REPLACEMENT

- This model uses the memory IC.
- This memory IC stores data for proper operation of the video and drive circuits.
- When replacing, be sure to use an IC containing this (initial value) data.

3.2.1 MEMORY IC REPLACEMENT PROCEDURE

1. Power off

Switch off the power and disconnect the power plug from the AC outlet.

2. Replace the memory IC

Be sure to use the memory IC written with the initial setting values.

3. Power on

Connect the power plug to the AC outlet and switch on the power.

4. Receiving channel setting

Refer to the OPERATING INSTRUCTIONS and set the receive channels (Channels Preset) as described.

5. User setting

Check the user setting items according to the given in page later. Where these do not agree, refer to the OPERATING INSTRUCTIONS and set the items as described.

6. SERVICE MENU setting

Verify what to set in the SERVICE MENU, and set whatever is necessary (Fig.1). Refer to the SERVICE ADJUSTMENT for setting.

3.2.2 SERVICE MENU SETTING ITEMS

SERVICE MODE

| | |
|-----------------|---------|
| 1.PICTURE/SOUND | 7.PANEL |
| 2.YC SEP | 8.PP |
| 3.WHITE BALANCE | 9.IP |
| 4.MEMORY SETUP | 0.HDMI |
| 5.RF AFC | |
| 6.DD/CM | |

Fig.1

| Setting items | Settings | Item No. |
|---|----------|---------------|
| 1. PICTURE/SOUND (sound and picture setting) | | |
| Audio circuits (A) | Fixed | A01~A27 |
| Video circuits (S) | Adjust | S01~S99 |
| Drive circuits (D) | Fixed | D01~D32 |
| Factory setting items (F) | Adjust | F01~F59 |
| 2. YC SEP (3-dimensional YC separation setting) | | |
| | Adjust | YCM001~YCM185 |
| | Fixed | YCS001~YCS114 |
| 3. WHITE BALANCE [Can not adjust] | | |
| 4. MEMORY SETUP (Memory data edit) [Do not adjust] | | |
| 5. RF AFC: AFC setting (Automatically set) [Do not adjust] | | |
| 6. DD/CM (Panel image processing setting) | | |
| | Adjust | DDT01~DDT34 |
| | Fixed | CMT01~CMT57 |
| 7. PANEL (Panel power limit control) [Do not adjust] | | |
| | Fixed | PDA001~PDA012 |
| 8. PP (Multi-screen processing setting) | | |
| | Adjust | ADM001~ADM034 |
| | Fixed | PPA001~PPA008 |
| | Fixed | PPB001~PPB036 |
| | Fixed | PPC001~PPC008 |
| | Fixed | PPD001~PPD025 |
| 9. IP (DIST processing setting) [Do not adjust] | | |
| | Fixed | IPA001~IPA120 |
| | Fixed | IPB001~IPB079 |
| | Fixed | IPC001~IPC044 |
| | Fixed | IPD001~IPD026 |
| | Fixed | IPE001~IPE015 |
| 0. HDMI (Digital input process setting) [Do not adjust] | | |
| | Fixed | HDM001~HDM080 |
| | Fixed | RHD001~RHD170 |

3.2.3 SETTINGS OF FACTORY SHIPMENT

3.2.3.1 BUTTON OPERATION

| Setting item | Setting position |
|--------------|------------------|
| POWER | OFF |
| INPUT | TV |
| CHANNEL | CABLE-02 |
| VOLUME | 10 |

3.2.3.2 REMOTE CONTROL DIRECT OPERATION

| Setting item | Setting position |
|----------------|---------------------------|
| INPUT | TV |
| CHANNEL | CABLE-02 |
| VOLUME | 10 |
| MUTING | OFF |
| DISPLAY | OFF |
| SOUND | A.H.S OFF |
| | BBE ON |
| | A.H.B ON |
| ASPECT | NTSC, 525i, 525p PANORAMA |
| | 750p, 1125i FULL |
| OFF TIMER | OFF |
| VIDEO STATUS | DYNAMIC |
| NATURAL CINEMA | AUTO |

3.2.3.3 REMOTE CONTROL MENU OPERATION

(1) PICTURE ADJUST

Customers can adjust the picture setting of menu screen as their own like but the picture standard value during factory shipment is as below.

■ NTSC MODE

| Setting item | PICTURE | BRIGHT | COLOR | TINT | DETAIL | COLOR TEMPERATURE | DIG. NOISE CLEAR | COLOR MANAGEMENT |
|--------------|---------|--------|-------|------|--------|-------------------|------------------|------------------|
| DINAMIC | 00 | +04 | 11 | +02 | +05 | HIGH | OFF | VIVID |
| STANDARD | 00 | 00 | 00 | 00 | 00 | LOW | OFF | STD |
| GAME | 00 | +05 | -05 | 00 | 0 | HIGH | OFF | STD |
| THEATER | 00 | 00 | 00 | 00 | 00 | HIGH | OFF | STD |

■ HD MODE

| Setting item | PICTURE | BRIGHT | COLOR | TINT | DETAIL | COLOR TEMPERATURE | DIG. NOISE CLEAR | COLOR MANAGEMENT |
|--------------|---------|--------|-------|------|--------|-------------------|------------------|------------------|
| DINAMIC | 00 | +03 | +12 | 00 | +03 | HIGH | OFF | VIVID |
| STANDARD | 00 | 00 | 00 | 00 | 00 | LOW | OFF | STD |
| GAME | 00 | +05 | -05 | 00 | 00 | HIGH | OFF | STD |
| THEATER | 00 | 00 | 00 | 00 | 00 | LOW | OFF | STD |

(2) SOUND ADJUST

| Setting item | Setting position |
|--------------|------------------|
| TREBLE | 00 |
| BASS | 00 |
| BALANCE | 00 |
| MTS | STEREO |

(3) CLOCK / TIMERS

| Setting item | Setting position |
|----------------|------------------|
| SET CLOCK | --- |
| ON / OFF TIMER | NO |

(4) INITIAL SETUP

| Setting item | Setting position | Setting item | Setting position |
|---------------------|------------------|------------------|------------------|
| POSITION ADJUSTMENT | Center | NOISE MUTING | ON |
| VIDEO STATUS | DYNAMIC | FRONT PANEL LOCK | OFF |
| XDS ID | ON | AUTO SHUT OFF | OFF |
| POWER INDICATOR | HIGH | DIGITAL-IN | SIZE-1 |
| VIDEO-1 MONITOR OUT | OFF | V-CHIP | OFF |
| LANGUAGE | KOR | AUTO DEMO | OFF |
| CLOSED CAPTION | CAPTION | IMAGE SHIFT | STD |
| | TEXT | V1 SMART INPUT | OFF |

3.3 REPLACEMENT OF CHIP COMPONENT

3.3.1 CAUTIONS

- (1) Avoid heating for more than 3 seconds.
- (2) Do not rub the electrodes and the resist parts of the pattern.
- (3) When removing a chip part, melt the solder adequately.
- (4) Do not reuse a chip part after removing it.

3.3.2 SOLDERING IRON

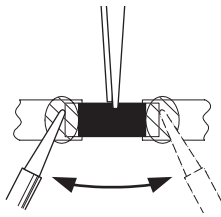
- (1) Use a high insulation soldering iron with a thin pointed end of it.
- (2) A 30w soldering iron is recommended for easily removing parts.

3.3.3 REPLACEMENT STEPS

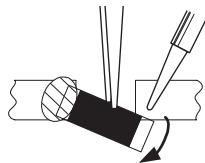
1. How to remove Chip parts

[Resistors, capacitors, etc.]

- (1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.



- (2) Shift with the tweezers and remove the chip part.

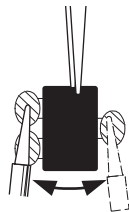


[Transistors, diodes, variable resistors, etc.]

- (1) Apply extra solder to each lead.



- (2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.



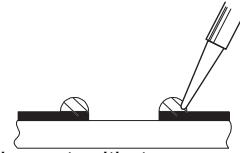
NOTE :

After removing the part, remove remaining solder from the pattern.

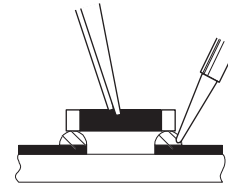
2. How to install Chip parts

[Resistors, capacitors, etc.]

- (1) Apply solder to the pattern as indicated in the figure.

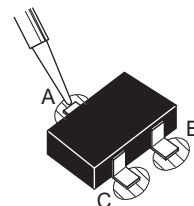


- (2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

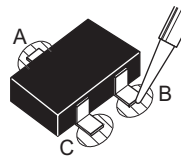


[Transistors, diodes, variable resistors, etc.]

- (1) Apply solder to the pattern as indicated in the figure.
- (2) Grasp the chip part with tweezers and place it on the solder.
- (3) First solder lead **A** as indicated in the figure.



- (4) Then solder leads **B** and **C**.



SECTION 4 ADJUSTMENT

4.1 ADJUSTMENT PREPARATION

- (1) There are 2 ways of adjusting this TV : One is with the **REMOTE CONTROL UNIT** and the other is the conventional method using adjustment parts and components.
- (2) The adjustment using the **REMOTE CONTROL UNIT** is made on the basis of the initial setting values. The setting values which adjust the screen to the optimum condition can be different from the initial setting values.
- (3) Make sure that connection is correctly made AC to AC power source.
- (4) Turn on the power of the TV and measuring instruments for warning up for at least 30 minutes before starting adjustments.
- (5) If the receive or input signal is not specified, use the most appropriate signal for adjustment.
- (6) Never touch the parts (such as variable resistors, transformers and condensers) not shown in the adjustment items of this service adjustment.
- (7) Preparation for adjustment. Unless otherwise specified in the adjustment items, preset the following functions with the **REMOTE CONTROL UNIT**.

| Setting item | Settings |
|----------------------------------|----------|
| VIDEO STATUS | STANDARD |
| BRIGHT / CONTRAST / COLOR / TINT | 00 |
| COLOR TEMPERATURE | LOW |
| DIG. NOISE CLEAR | OFF |
| COLOR MANEGMENT | STANDARD |
| NATURAL CINEMA | OFF |
| TREBLE / BASS / BALANCE | 00 |
| BBE | OFF |
| A.H.S | OFF |
| A.H.B | OFF |
| ASPECT | FULL |

4.2 MEASURING INSTRUMENT AND FIXTURES

- DC voltmeter (or digital voltmeter)
- Oscilloscope
- Signal generator (Pattern generator)
[NTSC / 525i / 525p / 750p / 1125i / DIGITAL]
- TV audio multiplex signal generator
- Remote control unit

4.3 ADJUSTMENT ITEMS

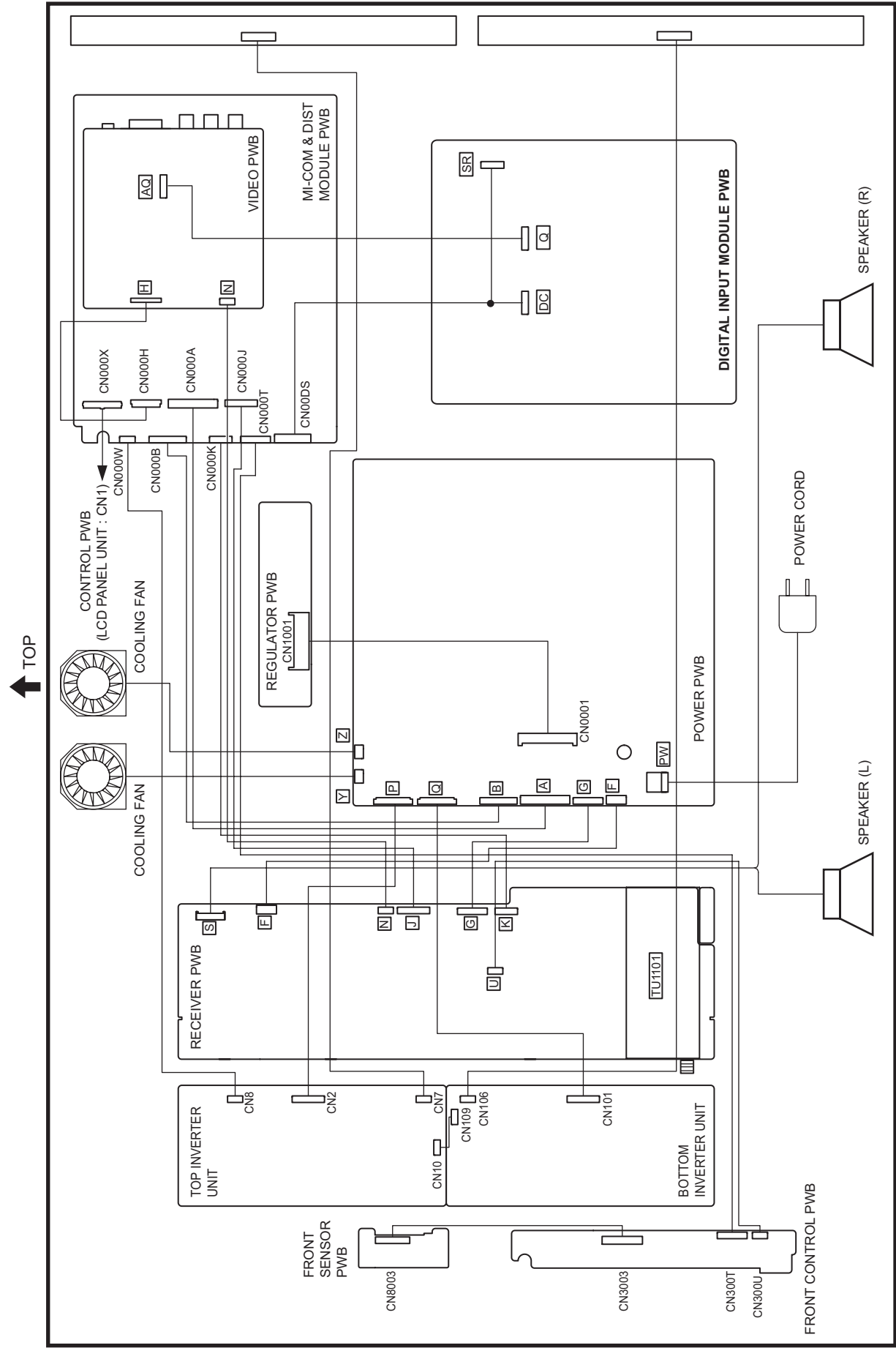
■ VIDEO CIRCUIT

- COMPONENT INPUT BLACK LEVEL adjustment
- COMPONENT INPUT A-D CONVERTER GAIN adjustment
- COMPONENT INPUT A-D CONVERTER OFFSET adjustment
- COMPOSITE INPUT BLACK LEVEL adjustment
- COMPOSITE INPUT A-D CONVERTER OFFSET adjustment
- SUB-SCREEN BLACK LEVEL adjustment
- SUB-SCREEN A-D CONVERTER GAIN adjustment
- WHITE BALANCE (HIGHLIGHT) adjustment

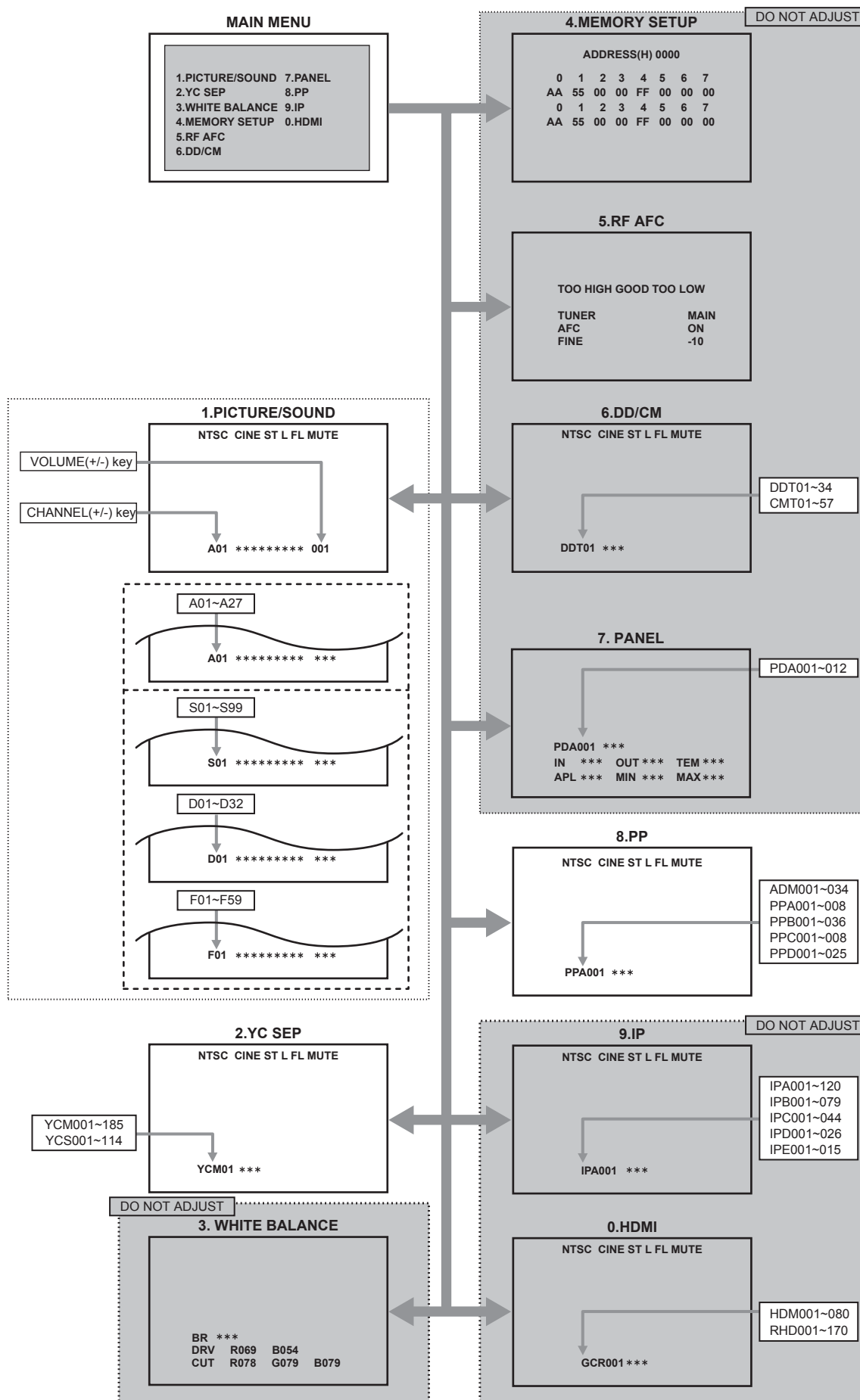
■ MTS CIRCUIT

- MTS INPUT LEVEL adjustment
- MTS SEPARATION adjustment

4.4 ADJUSTMENT LOCATION & WIRING



4.5 BASIC OPERATION OF SERVICE MODE



4.5.1 TOOL OF SERVICE MODE OPERATION

Operate the SERVICE MODE with the REMOTE CONTROL UNIT.

4.5.2 SERVICE MODE ITEMS

In general, basic setting (adjustments) items or verifications are performed in the SERVICE MODE.

| | |
|-------------------|---|
| 1.PICTURE / SOUND | This sets the setting values of the VIDEO, AUDIO and DRIVE circuits. |
| 2.YC SEP | This is used when the YC separation circuit is adjusted. |
| 3.WHITE BALANCE | This sets the setting values of the WHITE BALANCE. [Do not adjust] |
| 4.MEMORY SETUP | This sets the setting values of the MEMORY ADDRESS. [Do not adjust] |
| 5.RF AFC | This is used when the IF VCO is adjusted. [Do not adjust] |
| 6.DD/CM | This sets the setting values of the panel image processing. [Do not adjust] |
| 7.PANEL | This sets the setting values of the panel power limit control. [Do not adjust] |
| 8.PP | This sets the setting value of the output of MULTI-PICTURE circuit. |
| 9.IP | This sets the setting value of the DIST circuit. [Do not adjust] |
| 0.HDMI | This sets the setting value of the DIGITAL INPUT MODULE circuit. [Do not adjust] . |

4.5.3 HOW TO ENTER THE SERVICE MODE

NOTE:

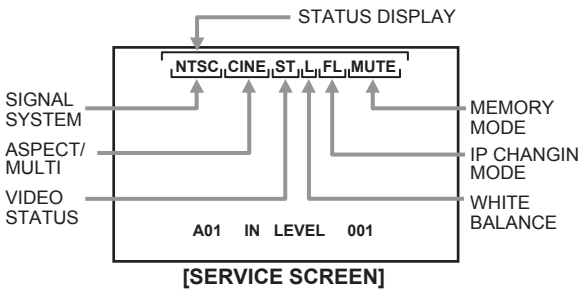
Ensure that the cursor (arrow) of the User Menu screen is pointing at picture control.

Before entering the SERVICE MODE, confirm that the setting of TV / CATV switch of the REMOTE CONTROL UNIT is at the "TV" side and the setting of VCR / DVD switch is at the "VCR" side. If the switches have not been properly set, you cannot enter the SERVICE MODE.

- (1) Set to 0 minutes using the [SLEEP TIMER] key.
- (2) Press the [VIDEO STATUS] key and [DISPLAY] key simultaneously, then enter the SERVICE MODE mode.
- (3) When the Main Menu is displayed, press any key of the [0] to [9] key to enter the corresponding menu mode.
- (4) Select the service item using the [CH +] / [CH -] key.
- (5) Set the value using the [VOL +] / [VOL -] key.
- (6) Press the [MUTING] key to save the value.

4.5.5 DESCRIPTION OF STATUS DISPLAY

The status display on the upper part of the SERVICE MODE screen is common (to all models).



(1) SIGNAL SYSTEM

- NTSC : Composite, S-video (Y / C), RF, No signal.
- DVD : 525i (component)
- ED : 525p
- HD : 1125i
- 750p : 750p
- HED1 : DIGITAL 525p SIZE1
- HED2 : DIGITAL 525p SIZE2
- HHD : DIGITAL 1125i
- H750 : DIGITAL 750p

(2) ASPECT / MULTI

SINGLE SCREEN

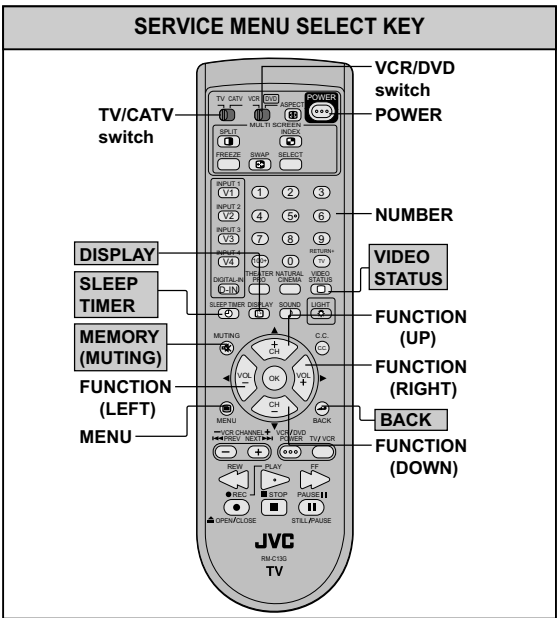
- FULL : FULL
- PANO : PANORAMA
- CINE : CINEMA
- REGU : REGULAR

MULTI SCREEN

- M1 : SINGLE screen (for adjustment)
- M2-1 : SPLIT
- M12 : INDEX

4.5.4 HOW TO EXIT THE SERVICE MODE

Press the [BACK] key to exit the Service mode.



(3) VIDEO STATUS

ST : STANDARD
DA : DYNAMIC
TH : THEATER
GA : GAME

(4) WHITE BALANCE

H : HIGH
L : LOW

(5) IP CHANGING MODE

FL : FRAME
L1 : LINE
23 : COMPULSORY NATURAL CINEMA IN

(6) MEMORY MODE

MUTE : Press [MUTING] key
DIR : Change data then memory at the same time.

4.5.6 SERVICE MODE SETTING

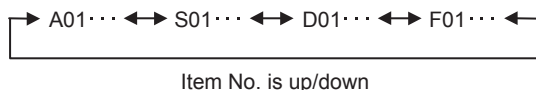
1. PICTURE/SOUND

AUDIO, VIDEO, DRIVE data adjustment.

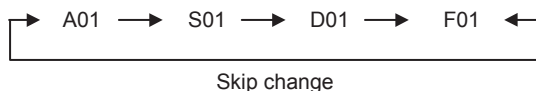
(1) SETTING ITEM No.

A : AUDIO
S : SIGNAL
D : DRIVE
F : FACTORY SETTING

- Press [CH+] / [CH-] key



- Press [SLEEP TIMER] key



(2) SETTING ITEM NAME

Describe setting item name

(3) SETTING VALUE

Set the setting value.

- Press [VOL+] / [VOL-] key
Set the setting value.
- Press [MUTING] key
Memorize the data.

NOTE:

Setting for any of the following items that is not included in the "ADJUSTMENT PROCEDURE" section found in the later part of this manual will not be performed in servicing.

2. YC SEP (3D Y/C separation setting)

[Do not change settings of items that are not included in the "ADJUSTMENT PROCEDURE" section.]

Sets output data to the 3D Y/C separation circuit.

- Press [CH+] / [CH-] key
For scrolling up/down the item codes.
- Press [VOL+] / [VOL-] key
For scrolling up/down the data values.

3. WHITE BALANCE (White balance setting)

[Setting for this item is not required in servicing.]

4. MEMORY SETUP (Memory setting)

[Do not change settings]

5. RF AFC

Setting for this item is not required in servicing.

6. DD/CM

[Do not change settings]

Adjustment of color management and device driver

7. PANEL (Panel power limit control)

[Do not change settings]

8. PP (Multi-screen processing setting)

[Do not change settings of items that are not included in the "ADJUSTMENT PROCEDURE" section.]

Sets output data to the multi-screen processing circuit.

- Press [CH+] / [CH-] key
For scrolling up/down the item codes.
- Press [VOL+] / [VOL-] key
For scrolling up/down the data values.

9. IP (DIST setting)

[Do not change settings]

Sets output data to the DIST circuit.

0. HDMI

[Do not change settings]

Sets output data to the DIGITAL INPUT circuit

4.6 INITIAL SETTING VALUES IN THE SERVICE MODE

- Perform fine-tuning based on the "initial values" using the remote control when in the Service mode.
- The "initial values" serve only as an indication rough standard and therefore the values with which optimal display can be achieved may be different from the default values. But, don't change the values that are not written in "ADJUSTMENT PROCEDURE". They are fixed values.

NOTE:

As for the items whose settings are "Fixed" in Table 1 in "3.3 MEMORY IC REPLACEMENT", the following tables show initial values in NTSC signal input mode. As for the items whose conditions of SETTING VALUE are not written in the following tables, the following tables show initial values in NTSC signal input mode.

4.6.1 [1.PICTURE/SOUND]

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| A01 | (Not display) | 000~007 | 001 |
| A02 | (Not display) | 000~007 | 001 |
| A03 | (Not display) | 000~007 | 001 |
| A04 | (Not display) | 000~007 | 000 |
| A05 | (Not display) | 000~015 | 003 |
| A06 | (Not display) | 000~015 | 004 |
| A07 | (Not display) | 000~015 | 006 |
| A08 | (Not display) | 000~015 | 003 |
| A09 | (Not display) | 000~007 | 006 |
| A10 | (Not display) | 000~007 | 004 |
| A11 | (Not display) | 000~063 | 063 |
| A12 | (Not display) | 000~063 | 063 |
| A13 | (Not display) | 000~003 | 000 |
| A14 | (Not display) | 000~007 | 000 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| A15 | (Not display) | 000~003 | 000 |
| A16 | (Not display) | 000~003 | 000 |
| A17 | (Not display) | 000~003 | 000 |
| A18 | IN LEVEL | 000~015 | 006 |
| A19 | LOW SEP | 000~063 | 041 |
| A20 | HI SEP | 000~063 | 018 |
| A21 | (Not display) | 000~001 | 000 |
| A22 | (Not display) | 000~001 | 000 |
| A23 | (Not display) | 000~001 | 000 |
| A24 | (Not display) | 000~001 | 000 |
| A25 | (Not display) | 000~001 | 000 |
| A26 | (Not display) | 000~001 | 000 |
| A27 | (Not display) | 000~001 | 000 |

| Item No. | Item | Variable range | Setting value | | | | | | | |
|----------|----------|----------------|---------------|---------|----------|---------|----------|---------|------------|---------|
| | | | NTSC | | 525i | | 525p | | 750p/1125i | |
| | | | STANDARD | THEATER | STANDARD | THEATER | STANDARD | THEATER | STANDARD | THEATER |
| S01 | COLOR | 000~255 | 135 | 110 | 145 | 114 | 143 | 114 | 155 | 146 |
| S02 | TINAD | -127~128 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 |
| S03 | OF COLOR | -127~128 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 |
| S04 | OF TINAD | -127~128 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 |
| S05 | BRIG | 000~255 | 041 | 027 | 041 | 033 | 041 | 033 | 036 | 043 |
| S06 | CONT | 000~255 | 128 | 146 | 128 | 149 | 128 | 149 | 128 | 128 |
| S07 | OF BRIG | -127~128 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 |
| S08 | OF CONT | -127~128 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 |
| S09 | BYGN | 000~255 | 130 | 148 | 133 | 120 | 133 | 120 | 147 | 118 |
| S10 | OF BYGN | -127~128 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 |
| S11 | RYAXIS | -127~128 | +006 | 000 | +006 | 000 | +006 | 000 | 000 | 000 |
| S12 | MIX | 000~003 | 000 | 000 | 000 | 000 | 000 | 000 | 001 | 001 |

| Item No. | Item | Variable range | Setting value | | | | | | | |
|----------|------|----------------|---------------|-----|---------|------|----------|-----|---------|------|
| | | | NTSC | | | | 525i | | | |
| | | | STANDARD | | THEATER | | STANDARD | | THEATER | |
| | | | HIGH | LOW | HIGH | LOW | HIGH | LOW | HIGH | LOW |
| S13 | RDRV | 000~255 | 246 | 246 | 246 | 246 | 246 | 246 | 246 | 246 |
| S14 | RDRV | -127~128 | -001 | 000 | 000 | 000 | -001 | 000 | 000 | -001 |
| S15 | GDRV | 000~255 | 247 | 247 | 247 | 247 | 247 | 247 | 247 | 247 |
| S16 | GDRV | -127~128 | -011 | 000 | -008 | -019 | -011 | 000 | -011 | -020 |
| S17 | BDRV | 000~255 | 255 | 255 | 225 | 225 | 255 | 255 | 255 | 255 |
| S18 | BDRV | -127~128 | +019 | 000 | -014 | -030 | +019 | 000 | -016 | -033 |

| Item No. | Item | Variable range | Setting value | | | | | | | |
|----------|------|----------------|---------------|-----|---------|------|------------|-----|---------|------|
| | | | 525p | | | | 750p/1125i | | | |
| | | | STANDARD | | THEATER | | STANDARD | | THEATER | |
| | | | HIGH | LOW | HIGH | LOW | HIGH | LOW | HIGH | LOW |
| S13 | RDRV | 000~255 | 246 | 246 | 246 | 246 | 246 | 246 | 246 | 246 |
| S14 | RDRV | -127~128 | -001 | 000 | +001 | -001 | +001 | 000 | 000 | 000 |
| S15 | GDRV | 000~255 | 247 | 247 | 247 | 247 | 255 | 255 | 255 | 255 |
| S16 | GDRV | -127~128 | -011 | 000 | -007 | -020 | -004 | 000 | -006 | -027 |
| S17 | BDRV | 000~255 | 255 | 255 | 255 | 255 | 225 | 225 | 225 | 225 |
| S18 | BDRV | -127~128 | +019 | 000 | -016 | -033 | +032 | 000 | +013 | -038 |

| Item No. | Item | Variable range | Setting value | | | | | | | |
|----------|---------|----------------|---------------|---------|----------|---------|----------|---------|------------|---------|
| | | | NTSC | | 525i | | 525p | | 750p/1125i | |
| | | | STANDARD | THEATER | STANDARD | THEATER | STANDARD | THEATER | STANDARD | THEATER |
| | | | | | | | | | | |
| S19 | CUTR | 000~255 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 |
| S20 | OF CUTR | -127~128 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 |
| S21 | CUTG | 000~255 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 |
| S22 | OF CUTG | -127~128 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 |
| S23 | CUTB | 000~255 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 |
| S24 | OF CUTB | -127~128 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 |
| S25 | CUTR | 000~001 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 |
| S26 | CUTG | 000~001 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 |
| S27 | CUTB | 000~001 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 |
| S28 | BTHN | 000~001 | 001 | 000 | 001 | 000 | 001 | 000 | 001 | 000 |
| S29 | BCALM | 000~001 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 |
| S30 | BKAKOU | 000~031 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 |
| S31 | BLIM | 000~063 | 002 | 000 | 003 | 000 | 003 | 000 | 002 | 000 |
| S32 | BSTPO | 000~063 | 018 | 063 | 020 | 063 | 020 | 063 | 018 | 063 |
| S33 | BKAKON | 000~001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 |
| S34 | WTHN | 000~001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 |
| S35 | WCALM | 000~001 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 001 |
| S36 | WKAKOU | 000~031 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 |
| S37 | WLIM | 000~255 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 225 |
| S38 | WSTPO | 000~063 | 050 | 050 | 050 | 050 | 050 | 050 | 050 | 050 |
| S39 | WPEAK | 000~063 | 060 | 060 | 060 | 060 | 060 | 060 | 060 | 060 |
| S40 | WKAKON | 000~001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 |
| S41 | WGAINC | 000~001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 |

| Item No. | Item | Variable range | Setting value | | | | | | | |
|----------|---------------|----------------|---------------|---------|----------|---------|----------|---------|------------|---------|
| | | | NTSC | | 525i | | 525p | | 750p/1125i | |
| | | | STANDARD | THEATER | STANDARD | THEATER | STANDARD | THEATER | STANDARD | THEATER |
| S42 | GAINB | 000~003 | 001 | 000 | 001 | 000 | 001 | 000 | 002 | 000 |
| S43 | SLIC | 000~031 | 009 | 009 | 009 | 009 | 009 | 009 | 009 | 009 |
| S44 | APG | 000~003 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 |
| S45 | GAINA | 000~003 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 |
| S46 | (Not display) | 000~015 | 015 | 015 | 015 | 015 | 015 | 015 | 015 | 015 |
| S47 | (Not display) | 000~015 | 015 | 015 | 015 | 015 | 015 | 015 | 015 | 015 |
| S48 | DCTTRAN | 000~015 | 015 | 015 | 015 | 015 | 015 | 015 | 015 | 015 |

| Item No. | Item | Variable range | Setting value | |
|----------|-------|----------------|---------------|---------|
| | | | MULTI-SCREEN | ASPECT |
| | | | SPLIT | REGULAR |
| S49 | HSTR | 000~001 | 001 | 000 |
| S50 | HSTR | 000~255 | 010 | 018 |
| S51 | HEND | 000~001 | 000 | 000 |
| S52 | HEND | 000~255 | 087 | 079 |
| S53 | VSTR | 000~001 | 000 | 000 |
| S54 | VSTR | 000~255 | 026 | 006 |
| S55 | VEND | 000~001 | 000 | 000 |
| S56 | VEND | 000~255 | 077 | 096 |
| S57 | BHSTR | 000~255 | 000 | 000 |
| S58 | BHSTR | 000~015 | 000 | 000 |
| S59 | BHEND | 000~255 | 000 | 000 |
| S60 | BHEND | 000~015 | 000 | 000 |

Data of the setting value is selected in the order of "SPLIT" and "REGULAR".

| Item No. | Item | Variable range | Setting value | | | | | |
|----------|--------|----------------|---------------|---------|-----------|---------|------------|---------|
| | | | NTSC | | 525i/525p | | 750p/1125i | |
| | | | STANDARD | THEATER | STANDARD | THEATER | STANDARD | THEATER |
| S61 | PLPOL2 | 000~001 | 001 | 001 | 001 | 001 | 001 | 001 |
| S62 | PLEV2 | 000~127 | 016 | 015 | 016 | 015 | 016 | 016 |
| S63 | PLPOL1 | 000~001 | 000 | 000 | 000 | 000 | 000 | 000 |
| S64 | PLEV1 | 000~127 | 000 | 000 | 000 | 000 | 000 | 000 |

| Item No. | Item | Variable range | Setting value | | | | | | | |
|----------|------|----------------|---------------|---------|----------|---------|-----------|---------|------------|---------|
| | | | NTSC | | | | 525i/525p | | 750p/1125i | |
| | | | MULTI-SCREEN | | ASPECT | | | | | |
| | | | SPLIT | | REGULAR | | | | | |
| | | | STANDARD | THEATER | STANDARD | THEATER | STANDARD | THEATER | STANDARD | THEATER |
| S65 | MODC | 000~003 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 |
| S66 | RMC | 000~003 | 003 | 003 | 001 | 003 | 001 | 003 | 003 | 003 |
| S67 | RGA | 000~003 | 003 | 003 | 003 | 003 | 002 | 003 | 003 | 003 |
| S68 | CLIP | 000~015 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 |
| S69 | COR | 000~063 | 019 | 019 | 019 | 019 | 019 | 019 | 019 | 019 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| S70 | TINTON | 001~001 | 001 |
| S71 | DRIVER | 000~255 | 255 |
| S72 | DRIVEG | 000~255 | 255 |
| S73 | DRIVEB | 000~255 | 255 |
| S74 | EECONT | 000~031 | 000 |
| S75 | EEBRT | 000~031 | 009 |
| S76 | EETBRT | -127~128 | 000 |
| S77 | EETCONT | -127~128 | 000 |
| S78 | PICMAX | 000~255 | 255 |
| S79 | PICMIN | 000~255 | 000 |
| S80 | BRTMAX | 000~255 | 255 |
| S81 | BRTMIN | 000~255 | 000 |
| S82 | COLMAX | 000~255 | 255 |
| S83 | COLMIN | 000~255 | 000 |
| S84 | PWMDIM | 000~255 | 143 |
| S85 | ADIM | 000~255 | 255 |
| S86 | (Not display) | 000~255 | 255 |
| S87 | (Not display) | 000~007 | 003 |
| S88 | APLGAIN | 000~007 | 000 |
| S89 | APLLIM | 000~255 | 000 |
| S90 | ABSGAIN | 000~127 | 000 |
| S91 | BLKGAIN | 000~007 | 007 |
| S92 | BLKLIM | 000~031 | 031 |
| S93 | WHTGAIN | 000~007 | 007 |
| S94 | WHTLIM | 000~031 | 031 |
| S95 | DCSTART | 000~255 | 035 |
| S96 | DCGAIN | 000~015 | 006 |
| S97 | DCLIM | 000~063 | 050 |
| S98 | (Not display) | 000~001 | 000 |
| S99 | (Not display) | 000~003 | 000 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| D01 | (Not display) | 000~001 | 000 |
| D02 | (Not display) | 000~001 | 000 |
| D03 | (Not display) | 000~001 | 000 |
| D04 | (Not display) | 000~001 | 000 |
| D05 | (Not display) | 000~001 | 000 |
| D06 | (Not display) | 000~001 | 000 |
| D07 | (Not display) | 000~001 | 000 |
| D08 | (Not display) | 000~001 | 000 |
| D09 | (Not display) | 000~001 | 000 |
| D10 | (Not display) | 000~001 | 000 |
| D11 | (Not display) | 000~001 | 000 |
| D12 | (Not display) | 000~001 | 000 |
| D13 | (Not display) | 000~001 | 000 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| D14 | (Not display) | 000~001 | 000 |
| D15 | (Not display) | 000~001 | 000 |
| D16 | (Not display) | 000~001 | 000 |
| D17 | (Not display) | 000~001 | 000 |
| D18 | (Not display) | 000~001 | 000 |
| D19 | (Not display) | 000~001 | 000 |
| D20 | (Not display) | 000~001 | 000 |
| D21 | (Not display) | 000~001 | 000 |
| D22 | (Not display) | 000~001 | 000 |
| D23 | (Not display) | 000~001 | 000 |
| D24 | (Not display) | 000~001 | 000 |
| D25 | (Not display) | 000~001 | 000 |
| D26 | (Not display) | 000~001 | 000 |
| D27 | (Not display) | 000~001 | 053 |
| D28 | (Not display) | 000~001 | 000 |
| D29 | (Not display) | 000~001 | 000 |
| D30 | (Not display) | 000~001 | 000 |
| D31 | (Not display) | 000~001 | 000 |
| D32 | (Not display) | 000~001 | 000 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| F01 | (Not display) | 000~255 | 001 |
| F02 | (Not display) | 000~255 | 000 |
| F03 | (Not display) | 000~255 | 000 |
| F04 | (Not display) | 000~255 | 032 |
| F05 | (Not display) | 000~001 | 000 |
| F06 | (Not display) | 000~001 | 136 |
| F07 | (Not display) | 000~255 | 011 |
| F08 | (Not display) | 000~255 | 007 |
| F09 | (Not display) | 000~015 | 002 |
| F10 | (Not display) | 000~015 | 004 |
| F11 | (Not display) | 000~015 | 004 |
| F12 | (Not display) | 000~015 | 005 |
| F13 | (Not display) | 000~015 | 006 |
| F14 | (Not display) | 000~015 | 007 |
| F15 | (Not display) | 000~015 | 007 |
| F16 | (Not display) | 000~127 | 070 |
| F17 | (Not display) | 000~001 | 000 |
| F18 | (Not display) | 000~001 | 000 |
| F19 | (Not display) | 000~001 | 000 |
| F20 | (Not display) | 000~255 | 005 |
| F21 | (Not display) | 000~255 | 002 |
| F22 | (Not display) | 000~001 | 000 |
| F23 | (Not display) | 000~255 | 000 |
| F24 | (Not display) | 000~255 | 098 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| F25 | (Not display) | 000~255 | 006 |
| F26 | (Not display) | 000~255 | 040 |
| F27 | (Not display) | 000~255 | 040 |
| F28 | (Not display) | 000~001 | 000 |
| F29 | (Not display) | 000~001 | 000 |
| F30 | (Not display) | 000~001 | 000 |
| F31 | (Not display) | 000~001 | 000 |
| F32 | (Not display) | 000~001 | 000 |
| F33 | (Not display) | 000~001 | 000 |
| F34 | (Not display) | 000~001 | 000 |
| F35 | (Not display) | 000~001 | 000 |
| F36 | (Not display) | 000~001 | 000 |
| F37 | (Not display) | 000~001 | 000 |
| F38 | (Not display) | 000~001 | 000 |
| F39 | (Not display) | 000~001 | 000 |
| F40 | (Not display) | 000~001 | 000 |

| Item No. | Item | Variable range | Setting value | | | | |
|----------|---------------|----------------|---------------|------|------|------|-------|
| | | | NTSC | 525i | 525p | 750p | 1125i |
| F41 | (Not display) | 000~003 | 000 | 002 | 002 | 002 | 002 |
| F42 | (Not display) | 000~001 | 000 | 000 | 000 | 000 | 000 |
| F43 | (Not display) | 000~063 | 039 | 040 | 037 | 024 | 024 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| F44 | (Not display) | 000~001 | 000 |
| F45 | (Not display) | 000~007 | 000 |
| F46 | OUT LV. | 000~255 | 090 |
| F47 | LIMIT B | 000~255 | 000 |
| F48 | LIMIT A | 000~255 | 000 |
| F49 | (Not display) | 000~255 | 123 |
| F50 | (Not display) | 000~255 | 155 |
| F51 | (Not display) | 000~255 | 123 |
| F52 | (Not display) | 000~255 | 255 |
| F53 | (Not display) | 000~001 | 001 |
| F54 | (Not display) | 000~001 | 001 |
| F55 | (Not display) | 000~001 | 030 |
| F56 | (Not display) | 000~001 | 207 |
| F57 | (Not display) | 000~001 | 128 |
| F58 | (Not display) | 000~001 | 047 |
| F59 | (Not display) | 000~001 | 001 |
| F60 | (Not display) | 000~001 | 016 |
| F61 | (Not display) | 000~001 | 000 |
| F62 | (Not display) | 000~001 | 011 |
| F63 | ATT GAIN | 000~001 | 001 |
| F64 | (Not display) | 000~001 | 073 |
| F65 | (Not display) | 000~001 | 001 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| F66 | (Not display) | 000~001 | 003 |
| F67 | (Not display) | 000~001 | 201 |
| F68 | (Not display) | 000~001 | 000 |
| F69 | (Not display) | 000~001 | 000 |
| F70 | (Not display) | 000~001 | 000 |

4.6.2 [2.YC SEP]

NOTE :

Initial setting value is reference value at following condition.

INPUT SIGNAL : NTSC
ASPECT : FULL
MULTI-SCREEN : SINGLE
VIDEO STATUS : STANDARD
COLOR TEMPERATURE : LOW

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| YCM001 | (Not display) | 000~001 | 000 |
| YCM002 | (Not display) | 000~001 | 000 |
| YCM003 | (Not display) | 000~001 | 000 |
| YCM004 | (Not display) | 000~003 | 001 |
| YCM005 | (Not display) | 000~255 | 239 |
| YCM006 | (Not display) | 000~003 | 001 |
| YCM007 | (Not display) | 000~255 | 239 |
| YCM008 | (Not display) | 000~001 | 000 |
| YCM009 | (Not display) | 000~003 | 000 |
| YCM010 | (Not display) | 000~001 | 000 |
| YCM011 | (Not display) | 000~001 | 000 |
| YCM012 | (Not display) | 000~001 | 000 |
| YCM013 | (Not display) | 000~001 | 000 |
| YCM014 | (Not display) | 000~003 | 000 |
| YCM015 | (Not display) | 000~001 | 000 |
| YCM016 | (Not display) | 000~003 | 001 |
| YCM017 | (Not display) | 000~001 | 001 |
| YCM018 | (Not display) | 000~003 | 000 |
| YCM019 | (Not display) | 000~001 | 000 |
| YCM020 | (Not display) | 000~001 | 000 |
| YCM021 | (Not display) | 000~003 | 002 |
| YCM022 | (Not display) | 000~007 | 004 |
| YCM023 | (Not display) | 000~001 | 001 |
| YCM024 | (Not display) | 000~001 | 000 |
| YCM025 | (Not display) | 000~015 | 005 |
| YCM026 | (Not display) | 000~015 | 003 |
| YCM027 | (Not display) | 000~003 | 000 |
| YCM028 | (Not display) | 000~007 | 004 |
| YCM029 | (Not display) | 000~007 | 006 |
| YCM030 | (Not display) | 000~003 | 000 |
| YCM031 | (Not display) | 000~001 | 000 |
| YCM032 | (Not display) | 000~003 | 003 |
| YCM033 | (Not display) | 000~001 | 001 |
| YCM034 | (Not display) | 000~001 | 000 |
| YCM035 | (Not display) | 000~255 | 096 |
| YCM036 | (Not display) | 000~001 | 001 |
| YCM037 | (Not display) | 000~003 | 001 |
| YCM038 | (Not display) | 000~127 | 062 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| YCM039 | (Not display) | 000~127 | 073 |
| YCM040 | (Not display) | 000~003 | 002 |
| YCM041 | (Not display) | 000~063 | 016 |
| YCM042 | (Not display) | 000~001 | 000 |
| YCM043 | (Not display) | 000~001 | 000 |
| YCM044 | (Not display) | 000~255 | 200 |
| YCM045 | (Not display) | 000~001 | 000 |
| YCM046 | (Not display) | 000~255 | 147 |
| YCM047 | (Not display) | 000~001 | 001 |
| YCM048 | (Not display) | 000~001 | 001 |
| YCM049 | (Not display) | 000~001 | 001 |
| YCM050 | (Not display) | 000~001 | 001 |
| YCM051 | (Not display) | 000~001 | 001 |
| YCM052 | (Not display) | 000~001 | 000 |
| YCM053 | (Not display) | 000~001 | 000 |
| YCM054 | (Not display) | 000~003 | 003 |
| YCM055 | (Not display) | 000~003 | 003 |
| YCM056 | (Not display) | 000~003 | 000 |
| YCM057 | (Not display) | 000~001 | 000 |
| YCM058 | (Not display) | 000~001 | 001 |
| YCM059 | (Not display) | 000~001 | 001 |
| YCM060 | (Not display) | 000~001 | 000 |
| YCM061 | (Not display) | 000~001 | 001 |
| YCM062 | (Not display) | 000~015 | 001 |
| YCM063 | (Not display) | 000~015 | 005 |
| YCM064 | (Not display) | 000~003 | 000 |
| YCM065 | (Not display) | 000~063 | 060 |
| YCM066 | (Not display) | 000~063 | 040 |
| YCM067 | (Not display) | 000~063 | 025 |
| YCM068 | (Not display) | 000~063 | 012 |
| YCM069 | (Not display) | 000~063 | 036 |
| YCM070 | (Not display) | 000~063 | 031 |
| YCM071 | (Not display) | 000~127 | 031 |
| YCM072 | (Not display) | 000~001 | 001 |
| YCM073 | (Not display) | 000~001 | 001 |
| YCM074 | (Not display) | 000~063 | 024 |
| YCM075 | (Not display) | 000~001 | 000 |
| YCM076 | (Not display) | 000~001 | 001 |
| YCM077 | (Not display) | 000~063 | 010 |
| YCM078 | (Not display) | 000~063 | 001 |
| YCM079 | (Not display) | 000~255 | 000 |
| YCM080 | (Not display) | 000~255 | 000 |
| YCM081 | (Not display) | 000~255 | 000 |
| YCM082 | (Not display) | 000~255 | 000 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| YCM083 | (Not display) | 000~001 | 001 |
| YCM084 | (Not display) | 000~063 | 012 |
| YCM085 | (Not display) | 000~001 | 000 |
| YCM086 | (Not display) | 000~001 | 000 |
| YCM087 | (Not display) | 000~063 | 028 |
| YCM088 | (Not display) | 000~001 | 001 |
| YCM089 | (Not display) | 000~031 | 000 |
| YCM090 | (Not display) | 000~003 | 000 |
| YCM091 | (Not display) | 000~015 | 000 |
| YCM092 | (Not display) | 000~015 | 000 |
| YCM093 | (Not display) | 000~015 | 003 |
| YCM094 | (Not display) | 000~063 | 000 |
| YCM095 | (Not display) | 000~255 | 050 |
| YCM096 | (Not display) | 000~001 | 000 |
| YCM097 | (Not display) | 000~063 | 032 |
| YCM098 | (Not display) | 000~015 | 008 |
| YCM099 | (Not display) | 000~015 | 005 |
| YCM100 | (Not display) | 000~015 | 008 |
| YCM101 | (Not display) | 000~015 | 005 |
| YCM102 | (Not display) | 000~015 | 000 |
| YCM103 | (Not display) | 000~015 | 002 |
| YCM104 | (Not display) | 000~015 | 008 |
| YCM105 | (Not display) | 000~015 | 006 |
| YCM106 | (Not display) | 000~255 | 010 |
| YCM107 | (Not display) | 000~255 | 032 |
| YCM108 | (Not display) | 000~255 | 031 |
| YCM109 | (Not display) | 000~255 | 064 |
| YCM110 | (Not display) | 000~001 | 000 |
| YCM111 | (Not display) | 000~001 | 001 |
| YCM112 | (Not display) | 000~001 | 001 |
| YCM113 | (Not display) | 000~001 | 001 |
| YCM114 | (Not display) | 000~001 | 000 |
| YCM115 | (Not display) | 000~001 | 001 |
| YCM116 | (Not display) | 000~001 | 000 |
| YCM117 | (Not display) | 000~001 | 000 |
| YCM118 | (Not display) | 000~001 | 001 |
| YCM119 | (Not display) | 000~001 | 000 |
| YCM120 | (Not display) | 000~001 | 000 |
| YCM121 | (Not display) | 000~003 | 003 |
| YCM122 | (Not display) | 000~001 | 000 |
| YCM123 | (Not display) | 000~255 | 000 |
| YCM124 | (Not display) | 000~001 | 000 |
| YCM125 | (Not display) | 000~255 | 002 |
| YCM126 | (Not display) | 000~001 | 000 |
| YCM127 | (Not display) | 000~001 | 001 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| YCM128 | (Not display) | 000~001 | 001 |
| YCM129 | (Not display) | 000~001 | 001 |
| YCM130 | (Not display) | 000~003 | 001 |
| YCM131 | (Not display) | 000~255 | 040 |
| YCM132 | (Not display) | 000~255 | 155 |
| YCM133 | (Not display) | 000~255 | 055 |
| YCM134 | (Not display) | 000~007 | 001 |
| YCM135 | (Not display) | 000~255 | 136 |
| YCM136 | (Not display) | 000~001 | 000 |
| YCM137 | (Not display) | 000~001 | 001 |
| YCM138 | (Not display) | 000~007 | 003 |
| YCM139 | (Not display) | 000~255 | 141 |
| YCM140 | (Not display) | 000~007 | 000 |
| YCM141 | (Not display) | 000~255 | 014 |
| YCM142 | (Not display) | 000~001 | 000 |
| YCM143 | (Not display) | 000~007 | 005 |
| YCM144 | (Not display) | 000~255 | 128 |
| YCM145 | (Not display) | 000~001 | 000 |
| YCM146 | (Not display) | 000~001 | 001 |
| YCM147 | (Not display) | 000~001 | 001 |
| YCM148 | (Not display) | 000~001 | 001 |
| YCM149 | (Not display) | 000~001 | 000 |
| YCM150 | (Not display) | 000~001 | 000 |
| YCM151 | (Not display) | 000~255 | 136 |
| YCM152 | (Not display) | 000~001 | 001 |
| YCM153 | (Not display) | 000~001 | 001 |
| YCM154 | (Not display) | 000~001 | 001 |
| YCM155 | (Not display) | 000~003 | 000 |
| YCM156 | (Not display) | 000~015 | 015 |
| YCM157 | (Not display) | 000~015 | 004 |
| YCM158 | (Not display) | 000~001 | 001 |
| YCM159 | (Not display) | 000~127 | 007 |
| YCM160 | (Not display) | 000~001 | 001 |
| YCM161 | (Not display) | 000~031 | 000 |
| YCM162 | (Not display) | 000~001 | 000 |
| YCM163 | (Not display) | 000~015 | 003 |
| YCM164 | (Not display) | 000~007 | 002 |
| YCM165 | (Not display) | 000~031 | 016 |
| YCM166 | (Not display) | 000~255 | 235 |
| YCM167 | (Not display) | 000~003 | 000 |
| YCM168 | (Not display) | 000~063 | 000 |
| YCM169 | (Not display) | 000~015 | 003 |
| YCM170 | (Not display) | 000~015 | 003 |
| YCM171 | (Not display) | 000~007 | 000 |
| YCM172 | (Not display) | 000~255 | 096 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| YCM173 | (Not display) | 000~007 | 003 |
| YCM174 | (Not display) | 000~255 | 056 |
| YCM175 | (Not display) | 000~001 | 000 |
| YCM176 | (Not display) | 000~001 | 000 |
| YCM177 | (Not display) | 000~255 | 022 |
| YCM178 | (Not display) | 000~001 | 001 |
| YCM179 | (Not display) | 000~001 | 000 |
| YCM180 | (Not display) | 000~007 | 003 |
| YCM181 | (Not display) | 000~003 | 001 |
| YCM182 | (Not display) | 000~003 | 001 |
| YCM183 | (Not display) | 000~003 | 001 |
| YCM184 | (Not display) | 000~003 | 001 |
| YCM185 | (Not display) | 000~255 | 000 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| YCS001 | (Not display) | 000~001 | 000 |
| YCS002 | (Not display) | 000~001 | 000 |
| YCS003 | (Not display) | 000~001 | 000 |
| YCS004 | (Not display) | 000~003 | 001 |
| YCS005 | (Not display) | 000~255 | 239 |
| YCS006 | (Not display) | 000~003 | 001 |
| YCS007 | (Not display) | 000~255 | 239 |
| YCS008 | (Not display) | 000~001 | 000 |
| YCS009 | (Not display) | 000~003 | 000 |
| YCS010 | (Not display) | 000~001 | 000 |
| YCS011 | (Not display) | 000~001 | 000 |
| YCS012 | (Not display) | 000~001 | 000 |
| YCS013 | (Not display) | 000~001 | 000 |
| YCS014 | (Not display) | 000~003 | 000 |
| YCS015 | (Not display) | 000~001 | 000 |
| YCS016 | (Not display) | 000~003 | 001 |
| YCS017 | (Not display) | 000~001 | 001 |
| YCS018 | (Not display) | 000~003 | 000 |
| YCS019 | (Not display) | 000~001 | 000 |
| YCS020 | (Not display) | 000~001 | 000 |
| YCS021 | (Not display) | 000~003 | 002 |
| YCS022 | (Not display) | 000~007 | 004 |
| YCS023 | (Not display) | 000~001 | 001 |
| YCS024 | (Not display) | 000~001 | 000 |
| YCS025 | (Not display) | 000~015 | 005 |
| YCS026 | (Not display) | 000~015 | 003 |
| YCS027 | (Not display) | 000~003 | 000 |
| YCS028 | (Not display) | 000~007 | 003 |
| YCS029 | (Not display) | 000~007 | 002 |
| YCS030 | (Not display) | 000~003 | 003 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| YCS031 | (Not display) | 000~001 | 000 |
| YCS032 | (Not display) | 000~003 | 003 |
| YCS033 | (Not display) | 000~001 | 001 |
| YCS034 | (Not display) | 000~001 | 000 |
| YCS035 | (Not display) | 000~255 | 096 |
| YCS036 | (Not display) | 000~001 | 001 |
| YCS037 | (Not display) | 000~003 | 001 |
| YCS038 | (Not display) | 000~127 | 062 |
| YCS039 | (Not display) | 000~127 | 073 |
| YCS040 | (Not display) | 000~003 | 002 |
| YCS041 | (Not display) | 000~063 | 016 |
| YCS042 | (Not display) | 000~001 | 000 |
| YCS043 | (Not display) | 000~001 | 000 |
| YCS044 | (Not display) | 000~255 | 160 |
| YCS045 | (Not display) | 000~001 | 000 |
| YCS046 | (Not display) | 000~255 | 111 |
| YCS047 | (Not display) | 000~001 | 001 |
| YCS048 | (Not display) | 000~031 | 000 |
| YCS049 | (Not display) | 000~003 | 000 |
| YCS050 | (Not display) | 000~015 | 000 |
| YCS051 | (Not display) | 000~015 | 008 |
| YCS052 | (Not display) | 000~015 | 001 |
| YCS053 | (Not display) | 000~063 | 015 |
| YCS054 | (Not display) | 000~255 | 020 |
| YCS055 | (Not display) | 000~001 | 000 |
| YCS056 | (Not display) | 000~063 | 025 |
| YCS057 | (Not display) | 000~015 | 008 |
| YCS058 | (Not display) | 000~015 | 005 |
| YCS059 | (Not display) | 000~015 | 008 |
| YCS060 | (Not display) | 000~015 | 005 |
| YCS061 | (Not display) | 000~015 | 000 |
| YCS062 | (Not display) | 000~015 | 002 |
| YCS063 | (Not display) | 000~015 | 008 |
| YCS064 | (Not display) | 000~015 | 006 |
| YCS065 | (Not display) | 000~255 | 010 |
| YCS066 | (Not display) | 000~255 | 032 |
| YCS067 | (Not display) | 000~255 | 031 |
| YCS068 | (Not display) | 000~255 | 089 |
| YCS069 | (Not display) | 000~001 | 000 |
| YCS070 | (Not display) | 000~001 | 001 |
| YCS071 | (Not display) | 000~001 | 001 |
| YCS072 | (Not display) | 000~001 | 001 |
| YCS073 | (Not display) | 000~001 | 000 |
| YCS074 | (Not display) | 000~001 | 001 |
| YCS075 | (Not display) | 000~001 | 000 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| YCS076 | (Not display) | 000~001 | 000 |
| YCS077 | (Not display) | 000~001 | 000 |
| YCS078 | (Not display) | 000~001 | 000 |
| YCS079 | (Not display) | 000~001 | 000 |
| YCS080 | (Not display) | 000~003 | 003 |
| YCS081 | (Not display) | 000~001 | 000 |
| YCS082 | (Not display) | 000~255 | 000 |
| YCS083 | (Not display) | 000~255 | 000 |
| YCS084 | (Not display) | 000~007 | 000 |
| YCS085 | (Not display) | 000~255 | 014 |
| YCS086 | (Not display) | 000~001 | 000 |
| YCS087 | (Not display) | 000~001 | 001 |
| YCS088 | (Not display) | 000~001 | 000 |
| YCS089 | (Not display) | 000~001 | 000 |
| YCS090 | (Not display) | 000~255 | 136 |
| YCS091 | (Not display) | 000~001 | 001 |
| YCS092 | (Not display) | 000~001 | 001 |
| YCS093 | (Not display) | 000~001 | 001 |
| YCS094 | (Not display) | 000~003 | 000 |
| YCS095 | (Not display) | 000~015 | 015 |
| YCS096 | (Not display) | 000~015 | 002 |
| YCS097 | (Not display) | 000~001 | 001 |
| YCS098 | (Not display) | 000~127 | 007 |
| YCS099 | (Not display) | 000~031 | 000 |
| YCS100 | (Not display) | 000~001 | 000 |
| YCS101 | (Not display) | 000~015 | 003 |
| YCS102 | (Not display) | 000~007 | 002 |
| YCS103 | (Not display) | 000~031 | 016 |
| YCS104 | (Not display) | 000~255 | 235 |
| YCS105 | (Not display) | 000~003 | 000 |
| YCS106 | (Not display) | 000~063 | 000 |
| YCS107 | (Not display) | 000~015 | 003 |
| YCS108 | (Not display) | 000~015 | 003 |
| YCS109 | (Not display) | 000~001 | 000 |
| YCS110 | (Not display) | 000~003 | 001 |
| YCS111 | (Not display) | 000~003 | 001 |
| YCS112 | (Not display) | 000~003 | 001 |
| YCS113 | (Not display) | 000~003 | 001 |
| YCS114 | (Not display) | 000~255 | 000 |

4.6.3 [3.WHITE BALANCE]

NOTE :

Initial setting value is reference value at following condition.

INPUT SIGNAL : NTSC
 ASPECT : FULL
 MULTI-SCREEN : SINGLE
 VIDEO STATUS : STANDARD
 COLOR TEMPERATURE : LOW

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| BR | (Not display) | 000~238 | 000 |
| DRV R | (Not display) | 000~255 | 000 |
| DRV B | (Not display) | 000~255 | 000 |
| CUT R | (Not display) | 000~255 | 000 |
| CUT G | (Not display) | 000~255 | 000 |
| CUT B | (Not display) | 000~255 | 000 |

4.6.4 [6.DD/CM]

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| DDT01 | (Not display) | 000~015 | 000 |
| DDT02 | (Not display) | 000~255 | 000 |
| DDT03 | (Not display) | 000~255 | 119 |
| DDT04 | (Not display) | 000~255 | 246 |
| DDT05 | (Not display) | 000~255 | 247 |
| DDT06 | (Not display) | 000~255 | 255 |
| DDT07 | (Not display) | 000~003 | 000 |
| DDT08 | (Not display) | 000~255 | 032 |
| DDT09 | (Not display) | 000~003 | 000 |
| DDT10 | (Not display) | 000~255 | 000 |
| DDT11 | (Not display) | 000~007 | 000 |
| DDT12 | (Not display) | 000~255 | 115 |
| DDT13 | (Not display) | 000~255 | 000 |
| DDT14 | (Not display) | 000~003 | 002 |
| DDT15 | (Not display) | 000~007 | 000 |
| DDT16 | (Not display) | 000~255 | 186 |
| DDT17 | (Not display) | 000~001 | 000 |
| DDT18 | (Not display) | 000~001 | 000 |
| DDT19 | (Not display) | 000~063 | 002 |
| DDT20 | (Not display) | 000~015 | 014 |
| DDT21 | (Not display) | 000~015 | 008 |
| DDT22 | (Not display) | 000~015 | 000 |
| DDT23 | (Not display) | 000~015 | 000 |
| DDT24 | (Not display) | 000~001 | 000 |
| DDT25 | (Not display) | 000~001 | 000 |
| DDT26 | (Not display) | 000~001 | 000 |
| DDT27 | (Not display) | 000~007 | 000 |
| DDT28 | (Not display) | 000~255 | 122 |
| DDT29 | (Not display) | 000~003 | 002 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| DDT30 | (Not display) | 000~001 | 000 |
| DDT31 | (Not display) | 000~007 | 000 |
| DDT32 | (Not display) | 000~255 | 000 |
| DDT33 | (Not display) | 000~255 | 000 |
| DDT34 | (Not display) | 000~255 | 033 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| CMT01 | (Not display) | 000~003 | 000 |
| CMT02 | (Not display) | 000~0FF | 112 |
| CMT03 | (Not display) | 000~255 | 015 |
| CMT04 | (Not display) | 000~255 | 020 |
| CMT05 | (Not display) | -032~+031 | -005 |
| CMT06 | (Not display) | -128~+127 | +015 |
| CMT07 | (Not display) | -128~+127 | +010 |
| CMT08 | (Not display) | -128~+127 | +003 |
| CMT09 | (Not display) | -128~+127 | 000 |
| CMT10 | (Not display) | 000~003 | 000 |
| CMT11 | (Not display) | 000~0FF | 166 |
| CMT12 | (Not display) | 000~255 | 020 |
| CMT13 | (Not display) | 000~255 | 020 |
| CMT14 | (Not display) | -032~+031 | -005 |
| CMT15 | (Not display) | -128~+127 | +005 |
| CMT16 | (Not display) | -128~+127 | +003 |
| CMT17 | (Not display) | -128~+127 | 000 |
| CMT18 | (Not display) | -128~+127 | 000 |
| CMT19 | (Not display) | 000~003 | 000 |
| CMT20 | (Not display) | 000~0FF | 186 |
| CMT21 | (Not display) | 000~255 | 030 |
| CMT22 | (Not display) | 000~255 | 040 |
| CMT23 | (Not display) | -032~+031 | -007 |
| CMT24 | (Not display) | -128~+127 | +003 |
| CMT25 | (Not display) | -128~+127 | +011 |
| CMT26 | (Not display) | -128~+127 | +004 |
| CMT27 | (Not display) | -128~+127 | +007 |
| CMT28 | (Not display) | 000~003 | 001 |
| CMT29 | (Not display) | 000~0FF | 062 |
| CMT30 | (Not display) | 000~255 | 040 |
| CMT31 | (Not display) | 000~255 | 050 |
| CMT32 | (Not display) | -032~+031 | 000 |
| CMT33 | (Not display) | -128~+127 | -001 |
| CMT34 | (Not display) | -128~+127 | +015 |
| CMT35 | (Not display) | -128~+127 | -003 |
| CMT36 | (Not display) | -128~+127 | +015 |
| CMT37 | (Not display) | 000~255 | 064 |
| CMT38 | (Not display) | 000~255 | 068 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| CMT39 | (Not display) | 000~255 | 078 |
| CMT40 | (Not display) | -128~+127 | 000 |
| CMT41 | (Not display) | -128~+127 | 000 |
| CMT42 | (Not display) | 000~001 | 000 |
| CMT43 | (Not display) | 000~0FF | 080 |
| CMT44 | (Not display) | 000~001 | 001 |
| CMT45 | (Not display) | 000~0FF | 080 |
| CMT46 | (Not display) | 000~001 | 000 |
| CMT47 | (Not display) | 000~0FF | 080 |
| CMT48 | (Not display) | 000~001 | 000 |
| CMT49 | (Not display) | 000~001 | 001 |
| CMT50 | (Not display) | -016~+015 | +028 |
| CMT51 | (Not display) | -016~+015 | +028 |
| CMT52 | (Not display) | 000~001 | 000 |
| CMT53 | (Not display) | 000~001 | 000 |
| CMT54 | (Not display) | 000~003 | 000 |
| CMT55 | (Not display) | 000~001 | 000 |
| CMT56 | (Not display) | 000~001 | 001 |
| CMT57 | (Not display) | 000~001 | 000 |

4.6.5 [7.PANEL] (*All the values are fixed values.)

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| PDA001 | (Not display) | 000~255 | 000 |
| PDA002 | (Not display) | 000~255 | 000 |
| PDA003 | (Not display) | 000~255 | 000 |
| PDA004 | (Not display) | 000~255 | 000 |
| PDA005 | (Not display) | 000~001 | 000 |
| PDA006 | (Not display) | 000~001 | 000 |
| PDA007 | (Not display) | 000~255 | 000 |
| PDA008 | (Not display) | 000~255 | 000 |
| PDA009 | (Not display) | 000~255 | 000 |
| PDA010 | (Not display) | 000~255 | 000 |
| PDA011 | (Not display) | 000~255 | 000 |
| PDA012 | (Not display) | 000~127 | 000 |

4.6.6 [8.PP]

NOTE :

Initial setting value is reference value at following condition.

INPUT SIGNAL : NTSC
ASPECT : FULL
MULTI-SCREEN : SINGLE
VIDEO STATUS : STANDARD
COLOR TEMPERATURE : LOW

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| ADM001 | (Not display) | 000~0FF | 0D6 |
| ADM002 | (Not display) | 000~00F | 007 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| ADM003 | (Not display) | 000~003 | 001 |
| ADM004 | (Not display) | 000~007 | 005 |
| ADM005 | (Not display) | 000~01F | 016 |
| ADM006 | (Not display) | 000~0FF | 036 |
| ADM007 | (Not display) | 000~0FF | 08A |
| ADM008 | (Not display) | 000~0FF | 020 |
| ADM009 | (Not display) | 000~0FF | 0FF |
| ADM010 | (Not display) | 000~0FF | 0B9 |
| ADM011 | (Not display) | 000~0FF | 0FF |
| ADM012 | (Not display) | 000~07F | 035 |
| ADM013 | (Not display) | 000~07F | 02B |
| ADM014 | (Not display) | 000~07F | 03B |
| ADM015 | (Not display) | 000~001 | 001 |
| ADM016 | (Not display) | 000~001 | 001 |
| ADM017 | (Not display) | 000~001 | 000 |
| ADM018 | (Not display) | 000~001 | 001 |
| ADM019 | (Not display) | 000~001 | 000 |
| ADM020 | (Not display) | 000~001 | 000 |
| ADM021 | (Not display) | 000~001 | 001 |
| ADM022 | (Not display) | 000~001 | 000 |
| ADM023 | (Not display) | 000~001 | 000 |
| ADM024 | (Not display) | 000~001 | 001 |
| ADM025 | (Not display) | 000~001 | 000 |
| ADM026 | (Not display) | 000~001 | 001 |
| ADM027 | (Not display) | 000~001 | 001 |
| ADM028 | (Not display) | 000~001 | 001 |
| ADM029 | (Not display) | 000~001 | 001 |
| ADM030 | (Not display) | 000~01F | 003 |
| ADM031 | (Not display) | 000~001 | 001 |
| ADM032 | (Not display) | 000~001 | 000 |
| ADM033 | (Not display) | 000~001 | 001 |
| ADM034 | (Not display) | 000~0FF | 032 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| PPA001 | (Not display) | 000~255 | 040 |
| PPA002 | (Not display) | 000~255 | 000 |
| PPA003 | (Not display) | 000~255 | 05A |
| PPA004 | (Not display) | 000~255 | 000 |
| PPA005 | (Not display) | 000~255 | 000 |
| PPA006 | (Not display) | 000~255 | 001 |
| PPA007 | (Not display) | 000~255 | 05A |
| PPA008 | (Not display) | 000~255 | 023 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| PPB001 | (Not display) | 000~031 | 000 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| PPB002 | (Not display) | 000~255 | 000 |
| PPB003 | (Not display) | 000~255 | 000 |
| PPB004 | (Not display) | 000~031 | 000 |
| PPB005 | (Not display) | 000~255 | 014 |
| PPB006 | (Not display) | 000~255 | 000 |
| PPB007 | (Not display) | 000~031 | 000 |
| PPB008 | (Not display) | 000~255 | 028 |
| PPB009 | (Not display) | 000~255 | 000 |
| PPB010 | (Not display) | 000~031 | 000 |
| PPB011 | (Not display) | 000~255 | 000 |
| PPB012 | (Not display) | 000~255 | 000 |
| PPB013 | (Not display) | 000~031 | 000 |
| PPB014 | (Not display) | 000~255 | 000 |
| PPB015 | (Not display) | 000~255 | 000 |
| PPB016 | (Not display) | 000~031 | 000 |
| PPB017 | (Not display) | 000~255 | 000 |
| PPB018 | (Not display) | 000~255 | 000 |
| PPB019 | (Not display) | 000~031 | 000 |
| PPB020 | (Not display) | 000~255 | 000 |
| PPB021 | (Not display) | 000~255 | 000 |
| PPB022 | (Not display) | 000~031 | 000 |
| PPB023 | (Not display) | 000~255 | 000 |
| PPB024 | (Not display) | 000~255 | 000 |
| PPB025 | (Not display) | 000~031 | 000 |
| PPB026 | (Not display) | 000~255 | 000 |
| PPB027 | (Not display) | 000~255 | 000 |
| PPB028 | (Not display) | 000~031 | 000 |
| PPB029 | (Not display) | 000~255 | 000 |
| PPB030 | (Not display) | 000~255 | 000 |
| PPB031 | (Not display) | 000~031 | 000 |
| PPB032 | (Not display) | 000~255 | 000 |
| PPB033 | (Not display) | 000~255 | 000 |
| PPB034 | (Not display) | 000~031 | 000 |
| PPB035 | (Not display) | 000~255 | 000 |
| PPB036 | (Not display) | 000~255 | 000 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| PPC001 | (Not display) | 000~255 | 000 |
| PPC002 | (Not display) | 000~255 | 00E |
| PPC003 | (Not display) | 000~255 | 002 |
| PPC004 | (Not display) | 000~001 | 000 |
| PPC005 | (Not display) | 000~001 | 000 |
| PPC006 | (Not display) | 000~001 | 000 |
| PPC007 | (Not display) | 000~001 | 000 |
| PPC008 | (Not display) | 000~001 | 000 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| PPC009 | (Not display) | 000~001 | 01C |
| PPC010 | (Not display) | 000~001 | 004 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| PPD001 | (Not display) | 000~255 | 008 |
| PPD002 | (Not display) | 000~255 | 000 |
| PPD003 | (Not display) | 000~255 | 019 |
| PPD004 | (Not display) | 000~255 | 001 |
| PPD005 | (Not display) | 000~255 | 09A |
| PPD006 | (Not display) | 000~255 | 000 |
| PPD007 | (Not display) | 000~255 | 019 |
| PPD008 | (Not display) | 000~255 | 001 |
| PPD009 | (Not display) | 000~255 | 0B3 |
| PPD010 | (Not display) | 000~255 | 000 |
| PPD011 | (Not display) | 000~255 | 024 |
| PPD012 | (Not display) | 000~255 | 001 |
| PPD013 | (Not display) | 000~255 | 039 |
| PPD014 | (Not display) | 000~255 | 000 |
| PPD015 | (Not display) | 000~255 | 096 |
| PPD016 | (Not display) | 000~255 | 001 |
| PPD017 | (Not display) | 000~255 | 086 |
| PPD018 | (Not display) | 000~255 | 000 |
| PPD019 | (Not display) | 000~255 | 024 |
| PPD020 | (Not display) | 000~255 | 001 |
| PPD021 | (Not display) | 000~255 | 050 |
| PPD022 | (Not display) | 000~255 | 000 |
| PPD023 | (Not display) | 000~255 | 0AA |
| PPD024 | (Not display) | 000~255 | 001 |
| PPD025 | (Not display) | 000~255 | 072 |

4.6.7 [9.IP] (*All the values are fixed values.)

NOTE :

Initial setting value is reference value at following condition.

INPUT SIGNAL : NTSC
ASPECT : FULL
MULTI-SCREEN : SINGLE
VIDEO STATUS : STANDARD
COLOR TEMPERATURE : LOW

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| IPA001 | (Not display) | 000~001 | 001 |
| IPA002 | (Not display) | 000~063 | 01C |
| IPA003 | (Not display) | 000~063 | 018 |
| IPA004 | (Not display) | 000~063 | 01C |
| IPA005 | (Not display) | 000~003 | 000 |
| IPA006 | (Not display) | 000~003 | 000 |
| IPA007 | (Not display) | 000~015 | 00F |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| IPA008 | (Not display) | 000~063 | 002 |
| IPA009 | (Not display) | 000~063 | 003 |
| IPA010 | (Not display) | 000~063 | 01B |
| IPA011 | (Not display) | 000~063 | 019 |
| IPA012 | (Not display) | 000~063 | 029F |
| IPA013 | (Not display) | 000~003 | 000 |
| IPA014 | (Not display) | 000~003 | 000 |
| IPA015 | (Not display) | 000~063 | 00F |
| IPA016 | (Not display) | 000~063 | 003 |
| IPA017 | (Not display) | 000~001 | 001 |
| IPA018 | (Not display) | 000~063 | 02C |
| IPA019 | (Not display) | 000~001 | 001 |
| IPA020 | (Not display) | 000~001 | 001 |
| IPA021 | (Not display) | 000~063 | 015 |
| IPA022 | (Not display) | 000~003 | 000 |
| IPA023 | (Not display) | 000~063 | 004 |
| IPA024 | (Not display) | 000~001 | 001 |
| IPA025 | (Not display) | 000~001 | 001 |
| IPA026 | (Not display) | 000~063 | 015 |
| IPA027 | (Not display) | 000~003 | 000 |
| IPA028 | (Not display) | 000~063 | 005 |
| IPA029 | (Not display) | 000~063 | 000 |
| IPA030 | (Not display) | 000~015 | 000 |
| IPA031 | (Not display) | 000~007 | 000 |
| IPA032 | (Not display) | 000~063 | 000 |
| IPA033 | (Not display) | 000~001 | 000 |
| IPA034 | (Not display) | 000~063 | 000 |
| IPA035 | (Not display) | 000~001 | 001 |
| IPA036 | (Not display) | 000~063 | 00D |
| IPA037 | (Not display) | 000~063 | 00D |
| IPA038 | (Not display) | 000~063 | 010 |
| IPA039 | (Not display) | 000~003 | 001 |
| IPA040 | (Not display) | 000~003 | 001 |
| IPA041 | (Not display) | 000~015 | 00F |
| IPA042 | (Not display) | 000~063 | 005 |
| IPA043 | (Not display) | 000~063 | 005 |
| IPA044 | (Not display) | 000~063 | 00C |
| IPA045 | (Not display) | 000~063 | 00C |
| IPA046 | (Not display) | 000~063 | 00F |
| IPA047 | (Not display) | 000~003 | 001 |
| IPA048 | (Not display) | 000~003 | 001 |
| IPA049 | (Not display) | 000~015 | 00F |
| IPA050 | (Not display) | 000~063 | 008 |
| IPA051 | (Not display) | 000~001 | 001 |
| IPA052 | (Not display) | 000~063 | 008 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| IPA053 | (Not display) | 000~001 | 001 |
| IPA054 | (Not display) | 000~001 | 001 |
| IPA055 | (Not display) | 000~063 | 015 |
| IPA056 | (Not display) | 000~003 | 000 |
| IPA057 | (Not display) | 000~063 | 00A |
| IPA058 | (Not display) | 000~001 | 001 |
| IPA059 | (Not display) | 000~001 | 001 |
| IPA060 | (Not display) | 000~063 | 015 |
| IPA061 | (Not display) | 000~003 | 000 |
| IPA062 | (Not display) | 000~063 | 00A |
| IPA063 | (Not display) | 000~063 | 020 |
| IPA064 | (Not display) | 000~015 | 008 |
| IPA065 | (Not display) | 000~007 | 001 |
| IPA066 | (Not display) | 000~063 | 020 |
| IPA067 | (Not display) | 000~001 | 001 |
| IPA068 | (Not display) | 000~063 | 020 |
| IPA069 | (Not display) | 000~003 | 000 |
| IPA070 | (Not display) | 000~255 | 000 |
| IPA071 | (Not display) | 000~015 | 005 |
| IPA072 | (Not display) | 000~255 | 0DC |
| IPA073 | (Not display) | 000~001 | 000 |
| IPA074 | (Not display) | 000~001 | 000 |
| IPA075 | (Not display) | 000~255 | 016 |
| IPA076 | (Not display) | 000~001 | 000 |
| IPA077 | (Not display) | 000~001 | 000 |
| IPA078 | (Not display) | 000~001 | 000 |
| IPA079 | (Not display) | 000~001 | 000 |
| IPA080 | (Not display) | 000~001 | 000 |
| IPA081 | (Not display) | 000~001 | 000 |
| IPA082 | (Not display) | 000~001 | 000 |
| IPA083 | (Not display) | 000~001 | 000 |
| IPA084 | (Not display) | 000~001 | 000 |
| IPA085 | (Not display) | 000~001 | 000 |
| IPA086 | (Not display) | 000~001 | 000 |
| IPA087 | (Not display) | 000~001 | 000 |
| IPA088 | (Not display) | 000~001 | 000 |
| IPA089 | (Not display) | 000~001 | 000 |
| IPA090 | (Not display) | 000~001 | 000 |
| IPA091 | (Not display) | 000~015 | 000 |
| IPA092 | (Not display) | 000~255 | 000 |
| IPA093 | (Not display) | 000~015 | 003 |
| IPA094 | (Not display) | 000~255 | 0FF |
| IPA095 | (Not display) | 000~015 | 000 |
| IPA096 | (Not display) | 000~255 | 000 |
| IPA097 | (Not display) | 000~015 | 005 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| IPA098 | (Not display) | 000~255 | 0DB |
| IPA099 | (Not display) | 000~015 | 000 |
| IPA100 | (Not display) | 000~255 | 000 |
| IPA101 | (Not display) | 000~015 | 000 |
| IPA102 | (Not display) | 000~255 | 000 |
| IPA103 | (Not display) | 000~015 | 000 |
| IPA104 | (Not display) | 000~255 | 000 |
| IPA105 | (Not display) | 000~015 | 000 |
| IPA106 | (Not display) | 000~255 | 000 |
| IPA107 | (Not display) | 000~015 | 000 |
| IPA108 | (Not display) | 000~255 | 080 |
| IPA109 | (Not display) | 000~015 | 000 |
| IPA110 | (Not display) | 000~255 | 040 |
| IPA111 | (Not display) | 000~015 | 005 |
| IPA112 | (Not display) | 000~255 | 040 |
| IPA113 | (Not display) | 000~015 | 000 |
| IPA114 | (Not display) | 000~255 | 0C0 |
| IPA115 | (Not display) | 000~015 | 002 |
| IPA116 | (Not display) | 000~255 | 0EF |
| IPA117 | (Not display) | 000~001 | 000 |
| IPA118 | (Not display) | 000~001 | 000 |
| IPA119 | (Not display) | 000~001 | 000 |
| IPA120 | (Not display) | 000~001 | 000 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| IPB001 | (Not display) | 000~255 | 001 |
| IPB002 | (Not display) | 000~255 | 00F |
| IPB003 | (Not display) | 000~015 | 000 |
| IPB004 | (Not display) | 000~255 | 0B7 |
| IPB005 | (Not display) | 000~015 | 002 |
| IPB006 | (Not display) | 000~255 | 0C9 |
| IPB007 | (Not display) | 000~015 | 002 |
| IPB008 | (Not display) | 000~255 | 038 |
| IPB009 | (Not display) | 000~015 | 001 |
| IPB010 | (Not display) | 000~255 | 0AB |
| IPB011 | (Not display) | 000~015 | 001 |
| IPB012 | (Not display) | 000~255 | 01C |
| IPB013 | (Not display) | 000~015 | 000 |
| IPB014 | (Not display) | 000~255 | 08E |
| IPB015 | (Not display) | 000~015 | 000 |
| IPB016 | (Not display) | 000~255 | 01D |
| IPB017 | (Not display) | 000~015 | 000 |
| IPB018 | (Not display) | 000~255 | 01E |
| IPB019 | (Not display) | 000~015 | 000 |
| IPB020 | (Not display) | 000~255 | 023 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| IPB021 | (Not display) | 000~015 | 000 |
| IPB022 | (Not display) | 000~255 | 03E |
| IPB023 | (Not display) | 000~015 | 001 |
| IPB024 | (Not display) | 000~255 | 07B |
| IPB025 | (Not display) | 000~015 | 000 |
| IPB026 | (Not display) | 000~255 | 000 |
| IPB027 | (Not display) | 000~015 | 004 |
| IPB028 | (Not display) | 000~255 | 037 |
| IPB029 | (Not display) | 000~015 | 000 |
| IPB030 | (Not display) | 000~255 | 04C |
| IPB031 | (Not display) | 000~015 | 000 |
| IPB032 | (Not display) | 000~255 | 000 |
| IPB033 | (Not display) | 000~015 | 000 |
| IPB034 | (Not display) | 000~255 | 000 |
| IPB035 | (Not display) | 000~015 | 001 |
| IPB036 | (Not display) | 000~255 | 02E |
| IPB037 | (Not display) | 000~001 | 000 |
| IPB038 | (Not display) | 000~007 | 000 |
| IPB039 | (Not display) | 000~015 | 000 |
| IPB040 | (Not display) | 000~015 | 00F |
| IPB041 | (Not display) | 000~015 | 006 |
| IPB042 | (Not display) | 000~255 | 000 |
| IPB043 | (Not display) | 000~015 | 002 |
| IPB044 | (Not display) | 000~255 | 038 |
| IPB045 | (Not display) | 000~015 | 003 |
| IPB046 | (Not display) | 000~255 | 000 |
| IPB047 | (Not display) | 000~015 | 000 |
| IPB048 | (Not display) | 000~255 | 0CA |
| IPB049 | (Not display) | 000~015 | 000 |
| IPB050 | (Not display) | 000~255 | 0D0 |
| IPB051 | (Not display) | 000~015 | 000 |
| IPB052 | (Not display) | 000~255 | 000 |
| IPB053 | (Not display) | 000~015 | 000 |
| IPB054 | (Not display) | 000~255 | 000 |
| IPB055 | (Not display) | 000~015 | 000 |
| IPB056 | (Not display) | 000~255 | 0C4 |
| IPB057 | (Not display) | 000~015 | 006 |
| IPB058 | (Not display) | 000~255 | 040 |
| IPB059 | (Not display) | 000~007 | 001 |
| IPB060 | (Not display) | 000~003 | 000 |
| IPB061 | (Not display) | 000~003 | 000 |
| IPB062 | (Not display) | 000~001 | 000 |
| IPB063 | (Not display) | 000~255 | 000 |
| IPB064 | (Not display) | 000~255 | 080 |
| IPB065 | (Not display) | 000~255 | 080 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| IPB066 | (Not display) | 000~001 | 000 |
| IPB067 | (Not display) | 000~015 | 000 |
| IPB068 | (Not display) | 000~015 | 000 |
| IPB069 | (Not display) | 000~015 | 000 |
| IPB070 | (Not display) | 000~015 | 00F |
| IPB071 | (Not display) | 000~255 | 000 |
| IPB072 | (Not display) | 000~015 | 000 |
| IPB073 | (Not display) | 000~255 | 000 |
| IPB074 | (Not display) | 000~001 | 000 |
| IPB075 | (Not display) | 000~001 | 000 |
| IPB076 | (Not display) | 000~001 | 000 |
| IPB077 | (Not display) | 000~015 | 009 |
| IPB078 | (Not display) | 000~001 | 001 |
| IPB079 | (Not display) | 000~255 | 042 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| IPC001 | (Not display) | 000~003 | 002 |
| IPC002 | (Not display) | 000~255 | 0EA |
| IPC003 | (Not display) | 000~001 | 000 |
| IPC004 | (Not display) | 000~001 | 000 |
| IPC005 | (Not display) | 000~015 | 000 |
| IPC006 | (Not display) | 000~255 | 000 |
| IPC007 | (Not display) | 000~015 | 005 |
| IPC008 | (Not display) | 000~255 | 0DB |
| IPC009 | (Not display) | 000~015 | 006 |
| IPC010 | (Not display) | 000~255 | 071 |
| IPC011 | (Not display) | 000~015 | 000 |
| IPC012 | (Not display) | 000~255 | 000 |
| IPC013 | (Not display) | 000~003 | 001 |
| IPC014 | (Not display) | 000~001 | 000 |
| IPC015 | (Not display) | 000~001 | 001 |
| IPC016 | (Not display) | 000~255 | 0EE |
| IPC017 | (Not display) | 000~001 | 000 |
| IPC018 | (Not display) | 000~127 | 000 |
| IPC019 | (Not display) | 000~001 | 000 |
| IPC020 | (Not display) | 000~127 | 000 |
| IPC021 | (Not display) | 000~015 | 001 |
| IPC022 | (Not display) | 000~255 | 03F |
| IPC023 | (Not display) | 000~003 | 002 |
| IPC024 | (Not display) | 000~255 | 01E |
| IPC025 | (Not display) | 000~001 | 000 |
| IPC026 | (Not display) | 000~127 | 00F |
| IPC027 | (Not display) | 000~001 | 000 |
| IPC028 | (Not display) | 000~127 | 000 |
| IPC029 | (Not display) | 000~001 | 001 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| IPC030 | (Not display) | 000~001 | 000 |
| IPC031 | (Not display) | 000~001 | 000 |
| IPC032 | (Not display) | 000~001 | 000 |
| IPC033 | (Not display) | 000~001 | 001 |
| IPC034 | (Not display) | 000~001 | 001 |
| IPC035 | (Not display) | 000~001 | 000 |
| IPC036 | (Not display) | 000~001 | 000 |
| IPC037 | (Not display) | 000~001 | 000 |
| IPC038 | (Not display) | 000~001 | 000 |
| IPC039 | (Not display) | 000~001 | 000 |
| IPC040 | (Not display) | 000~001 | 000 |
| IPC041 | (Not display) | 000~001 | 000 |
| IPC042 | (Not display) | 000~001 | 000 |
| IPC043 | (Not display) | 000~001 | 000 |
| IPC044 | (Not display) | 000~001 | 000 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| IPD001 | (Not display) | 000~255 | 040 |
| IPD002 | (Not display) | 000~255 | 000 |
| IPD003 | (Not display) | 000~255 | 000 |
| IPD004 | (Not display) | 000~007 | 000 |
| IPD005 | (Not display) | 000~255 | 01C |
| IPD006 | (Not display) | 000~007 | 000 |
| IPD007 | (Not display) | 000~255 | 0E1 |
| IPD008 | (Not display) | 000~001 | 000 |
| IPD009 | (Not display) | 000~015 | 000 |
| IPD010 | (Not display) | 000~255 | 012 |
| IPD011 | (Not display) | 000~015 | 004 |
| IPD012 | (Not display) | 000~255 | 0BB |
| IPD013 | (Not display) | 000~007 | 000 |
| IPD014 | (Not display) | 000~007 | 000 |
| IPD015 | (Not display) | 000~001 | 000 |
| IPD016 | (Not display) | 000~001 | 000 |
| IPD017 | (Not display) | 000~255 | 000 |
| IPD018 | (Not display) | 000~007 | 000 |
| IPD019 | (Not display) | 000~255 | 01D |
| IPD020 | (Not display) | 000~007 | 002 |
| IPD021 | (Not display) | 000~255 | 0E6 |
| IPD022 | (Not display) | 000~001 | 001 |
| IPD023 | (Not display) | 000~015 | 001 |
| IPD024 | (Not display) | 000~255 | 00E |
| IPD025 | (Not display) | 000~015 | 004 |
| IPD026 | (Not display) | 000~255 | 0C0 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| IPE001 | (Not display) | 000~255 | 001 |
| IPE002 | (Not display) | 000~255 | 002 |
| IPE003 | (Not display) | 000~255 | 001 |
| IPE004 | (Not display) | 000~255 | 002 |
| IPE005 | (Not display) | 000~255 | 001 |
| IPE006 | (Not display) | 000~255 | 002 |
| IPE007 | (Not display) | 000~255 | 001 |
| IPE008 | (Not display) | 000~255 | 002 |
| IPE009 | (Not display) | -128~+127 | +005 |
| IPE010 | (Not display) | -128~+127 | +006 |
| IPE011 | (Not display) | -128~+127 | +005 |
| IPE012 | (Not display) | -128~+127 | +005 |
| IPE013 | (Not display) | -128~+127 | -005 |
| IPE014 | (Not display) | -128~+127 | +005 |
| IPE015 | (Not display) | 000~015 | 001 |

4.6.8 [0.HDMI] *All the values are fixed values.

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| HDM001 | (Not display) | 000~001 | 000 |
| HDM002 | (Not display) | 000~001 | 000 |
| HDM003 | (Not display) | 000~001 | 000 |
| HDM004 | (Not display) | 000~001 | 000 |
| HDM005 | (Not display) | 000~001 | 000 |
| HDM006 | (Not display) | 000~003 | 000 |
| HDM007 | (Not display) | 000~001 | 000 |
| HDM008 | (Not display) | 000~001 | 000 |
| HDM009 | (Not display) | 000~001 | 000 |
| HDM010 | (Not display) | 000~001 | 000 |
| HDM011 | (Not display) | 000~001 | 000 |
| HDM012 | (Not display) | 000~001 | 000 |
| HDM013 | (Not display) | 000~001 | 000 |
| HDM014 | (Not display) | 000~001 | 000 |
| HDM015 | (Not display) | 000~001 | 000 |
| HDM016 | (Not display) | 000~255 | 000 |
| HDM017 | (Not display) | 000~255 | 000 |
| HDM018 | (Not display) | 000~255 | 000 |
| HDM019 | (Not display) | 000~001 | 000 |
| HDM020 | (Not display) | 000~255 | 000 |
| HDM021 | (Not display) | 000~007 | 000 |
| HDM022 | (Not display) | 000~063 | 000 |
| HDM023 | (Not display) | 000~063 | 000 |
| HDM024 | (Not display) | 000~063 | 000 |
| HDM025 | (Not display) | 000~001 | 000 |
| HDM026 | (Not display) | 000~003 | 000 |
| HDM027 | (Not display) | 000~255 | 000 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| HDM028 | (Not display) | 000~003 | 000 |
| HDM029 | (Not display) | 000~255 | 000 |
| HDM030 | (Not display) | 000~003 | 000 |
| HDM031 | (Not display) | 000~255 | 000 |
| HDM032 | (Not display) | 000~003 | 000 |
| HDM033 | (Not display) | 000~255 | 000 |
| HDM034 | (Not display) | 000~003 | 000 |
| HDM035 | (Not display) | 000~255 | 000 |
| HDM036 | (Not display) | 000~255 | 000 |
| HDM037 | (Not display) | 000~255 | 000 |
| HDM038 | (Not display) | 000~255 | 000 |
| HDM039 | (Not display) | 000~001 | 000 |
| HDM040 | (Not display) | 000~001 | 000 |
| HDM041 | (Not display) | 000~001 | 000 |
| HDM042 | (Not display) | 000~255 | 000 |
| HDM043 | (Not display) | 000~007 | 000 |
| HDM044 | (Not display) | 000~003 | 000 |
| HDM045 | (Not display) | 000~003 | 000 |
| HDM046 | (Not display) | 000~001 | 000 |
| HDM047 | (Not display) | 000~015 | 000 |
| HDM048 | (Not display) | 000~255 | 000 |
| HDM049 | (Not display) | 000~255 | 000 |
| HDM050 | (Not display) | 000~015 | 000 |
| HDM051 | (Not display) | 000~001 | 000 |
| HDM052 | (Not display) | 000~001 | 000 |
| HDM053 | (Not display) | 000~001 | 000 |
| HDM054 | (Not display) | 000~001 | 000 |
| HDM055 | (Not display) | 000~001 | 000 |
| HDM056 | (Not display) | 000~001 | 000 |
| HDM057 | (Not display) | 000~001 | 000 |
| HDM058 | (Not display) | 000~001 | 000 |
| HDM059 | (Not display) | 000~001 | 000 |
| HDM060 | (Not display) | 000~001 | 000 |
| HDM061 | (Not display) | 000~001 | 000 |
| HDM062 | (Not display) | 000~001 | 000 |
| HDM063 | (Not display) | 000~001 | 000 |
| HDM064 | (Not display) | 000~001 | 000 |
| HDM065 | (Not display) | 000~001 | 000 |
| HDM066 | (Not display) | 000~001 | 000 |
| HDM067 | (Not display) | 000~001 | 000 |
| HDM068 | (Not display) | 000~031 | 000 |
| HDM069 | (Not display) | 000~001 | 000 |
| HDM070 | (Not display) | 000~001 | 000 |
| HDM071 | (Not display) | 000~001 | 000 |
| HDM072 | (Not display) | 000~001 | 000 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| HDM073 | (Not display) | 000~001 | 000 |
| HDM074 | (Not display) | 000~031 | 000 |
| HDM075 | (Not display) | 000~001 | 000 |
| HDM076 | (Not display) | 000~001 | 000 |
| HDM077 | (Not display) | 000~001 | 000 |
| HDM078 | (Not display) | 000~001 | 000 |
| HDM079 | (Not display) | 000~001 | 000 |
| HDM080 | (Not display) | 000~001 | 000 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| RHD001 | (Not display) | --- | 000 |
| RHD002 | (Not display) | --- | 000 |
| RHD003 | (Not display) | --- | 000 |
| RHD004 | (Not display) | --- | 000 |
| RHD005 | (Not display) | --- | 000 |
| RHD006 | (Not display) | --- | 000 |
| RHD007 | (Not display) | --- | 000 |
| RHD008 | (Not display) | --- | 000 |
| RHD009 | (Not display) | --- | 000 |
| RHD010 | (Not display) | --- | 000 |
| RHD011 | (Not display) | --- | 000 |
| RHD012 | (Not display) | --- | 000 |
| RHD013 | (Not display) | --- | 000 |
| RHD014 | (Not display) | --- | 000 |
| RHD015 | (Not display) | --- | 000 |
| RHD016 | (Not display) | --- | 000 |
| RHD017 | (Not display) | --- | 000 |
| RHD018 | (Not display) | --- | 000 |
| RHD019 | (Not display) | --- | 000 |
| RHD020 | (Not display) | --- | 000 |
| RHD021 | (Not display) | --- | 000 |
| RHD022 | (Not display) | --- | 000 |
| RHD023 | (Not display) | --- | 000 |
| RHD024 | (Not display) | --- | 000 |
| RHD025 | (Not display) | --- | 000 |
| RHD026 | (Not display) | --- | 000 |
| RHD027 | (Not display) | --- | 000 |
| RHD028 | (Not display) | --- | 000 |
| RHD029 | (Not display) | --- | 000 |
| RHD030 | (Not display) | --- | 000 |
| RHD031 | (Not display) | --- | 000 |
| RHD032 | (Not display) | --- | 000 |
| RHD033 | (Not display) | --- | 000 |
| RHD034 | (Not display) | --- | 000 |
| RHD035 | (Not display) | --- | 000 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| RHD036 | (Not display) | --- | 000 |
| RHD037 | (Not display) | --- | 000 |
| RHD038 | (Not display) | --- | 000 |
| RHD039 | (Not display) | --- | 000 |
| RHD040 | (Not display) | --- | 000 |
| RHD041 | (Not display) | --- | 000 |
| RHD042 | (Not display) | --- | 000 |
| RHD043 | (Not display) | --- | 000 |
| RHD044 | (Not display) | --- | 000 |
| RHD045 | (Not display) | --- | 000 |
| RHD046 | (Not display) | --- | 000 |
| RHD047 | (Not display) | --- | 000 |
| RHD048 | (Not display) | --- | 000 |
| RHD049 | (Not display) | --- | 000 |
| RHD050 | (Not display) | --- | 000 |
| RHD051 | (Not display) | --- | 000 |
| RHD052 | (Not display) | --- | 000 |
| RHD053 | (Not display) | --- | 000 |
| RHD054 | (Not display) | --- | 000 |
| RHD055 | (Not display) | --- | 000 |
| RHD056 | (Not display) | --- | 000 |
| RHD057 | (Not display) | --- | 000 |
| RHD058 | (Not display) | --- | 000 |
| RHD059 | (Not display) | --- | 000 |
| RHD060 | (Not display) | --- | 000 |
| RHD061 | (Not display) | --- | 000 |
| RHD062 | (Not display) | --- | 000 |
| RHD063 | (Not display) | --- | 000 |
| RHD064 | (Not display) | --- | 000 |
| RHD065 | (Not display) | --- | 000 |
| RHD066 | (Not display) | --- | 000 |
| RHD067 | (Not display) | --- | 000 |
| RHD068 | (Not display) | --- | 000 |
| RHD069 | (Not display) | --- | 000 |
| RHD070 | (Not display) | --- | 000 |
| RHD071 | (Not display) | --- | 000 |
| RHD072 | (Not display) | --- | 000 |
| RHD073 | (Not display) | --- | 000 |
| RHD074 | (Not display) | --- | 000 |
| RHD075 | (Not display) | --- | 000 |
| RHD076 | (Not display) | --- | 000 |
| RHD077 | (Not display) | --- | 000 |
| RHD078 | (Not display) | --- | 000 |
| RHD079 | (Not display) | --- | 000 |
| RHD080 | (Not display) | --- | 000 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| RHD081 | (Not display) | --- | 000 |
| RHD082 | (Not display) | --- | 000 |
| RHD083 | (Not display) | --- | 000 |
| RHD084 | (Not display) | --- | 000 |
| RHD085 | (Not display) | --- | 000 |
| RHD086 | (Not display) | --- | 000 |
| RHD087 | (Not display) | --- | 000 |
| RHD088 | (Not display) | --- | 000 |
| RHD089 | (Not display) | --- | 000 |
| RHD090 | (Not display) | --- | 000 |
| RHD091 | (Not display) | --- | 000 |
| RHD092 | (Not display) | --- | 000 |
| RHD093 | (Not display) | --- | 000 |
| RHD094 | (Not display) | --- | 000 |
| RHD095 | (Not display) | --- | 000 |
| RHD096 | (Not display) | --- | 000 |
| RHD097 | (Not display) | --- | 000 |
| RHD098 | (Not display) | --- | 000 |
| RHD099 | (Not display) | --- | 000 |
| RHD100 | (Not display) | --- | 000 |
| RHD101 | (Not display) | --- | 000 |
| RHD102 | (Not display) | --- | 000 |
| RHD103 | (Not display) | --- | 000 |
| RHD104 | (Not display) | --- | 000 |
| RHD105 | (Not display) | --- | 000 |
| RHD106 | (Not display) | --- | 000 |
| RHD107 | (Not display) | --- | 000 |
| RHD108 | (Not display) | --- | 000 |
| RHD109 | (Not display) | --- | 000 |
| RHD110 | (Not display) | --- | 000 |
| RHD111 | (Not display) | --- | 000 |
| RHD112 | (Not display) | --- | 000 |
| RHD113 | (Not display) | --- | 000 |
| RHD114 | (Not display) | --- | 000 |
| RHD115 | (Not display) | --- | 000 |
| RHD116 | (Not display) | --- | 000 |
| RHD117 | (Not display) | --- | 000 |
| RHD118 | (Not display) | --- | 000 |
| RHD119 | (Not display) | --- | 000 |
| RHD120 | (Not display) | --- | 000 |
| RHD121 | (Not display) | --- | 000 |
| RHD122 | (Not display) | --- | 000 |
| RHD123 | (Not display) | --- | 000 |
| RHD124 | (Not display) | --- | 000 |
| RHD125 | (Not display) | --- | 000 |

| Item No. | Item | Variable range | Setting value |
|----------|---------------|----------------|---------------|
| RHD126 | (Not display) | --- | 000 |
| RHD127 | (Not display) | --- | 000 |
| RHD128 | (Not display) | --- | 000 |
| RHD129 | (Not display) | --- | 000 |
| RHD130 | (Not display) | --- | 000 |
| RHD131 | (Not display) | --- | 000 |
| RHD132 | (Not display) | --- | 000 |
| RHD133 | (Not display) | --- | 000 |
| RHD134 | (Not display) | --- | 000 |
| RHD135 | (Not display) | --- | 000 |
| RHD136 | (Not display) | --- | 000 |
| RHD137 | (Not display) | --- | 000 |
| RHD138 | (Not display) | --- | 000 |
| RHD139 | (Not display) | --- | 000 |
| RHD140 | (Not display) | --- | 000 |
| RHD141 | (Not display) | --- | 000 |
| RHD142 | (Not display) | --- | 000 |
| RHD143 | (Not display) | --- | 000 |
| RHD144 | (Not display) | --- | 000 |
| RHD145 | (Not display) | --- | 000 |
| RHD146 | (Not display) | --- | 000 |
| RHD147 | (Not display) | --- | 000 |
| RHD148 | (Not display) | --- | 000 |
| RHD149 | (Not display) | --- | 000 |
| RHD150 | (Not display) | --- | 000 |
| RHD151 | (Not display) | --- | 000 |
| RHD152 | (Not display) | --- | 000 |
| RHD153 | (Not display) | --- | 000 |
| RHD154 | (Not display) | --- | 000 |
| RHD155 | (Not display) | --- | 000 |
| RHD156 | (Not display) | --- | 000 |
| RHD157 | (Not display) | --- | 000 |
| RHD158 | (Not display) | --- | 000 |
| RHD159 | (Not display) | --- | 000 |
| RHD160 | (Not display) | --- | 000 |
| RHD161 | (Not display) | --- | 000 |
| RHD162 | (Not display) | --- | 000 |
| RHD163 | (Not display) | --- | 000 |
| RHD164 | (Not display) | --- | 000 |
| RHD165 | (Not display) | --- | 000 |
| RHD166 | (Not display) | --- | 000 |
| RHD167 | (Not display) | --- | 000 |
| RHD168 | (Not display) | --- | 000 |
| RHD169 | (Not display) | --- | 000 |
| RHD170 | (Not display) | --- | 000 |

4.7 ADJUSTMENT PROCEDURE

4.7.1 SETTING BEFORE ADJUSTMENT

- (1) Check the following settings before adjustment.

| Item | setting value | contents |
|------|---------------|-----------|
| S19 | 128 | R CUT OFF |
| S21 | 128 | G CUT OFF |
| S23 | 128 | B CUT OFF |

- (2) Take note of initial values in the following table before adjustment. Then, set the values to adjustment setting values shown in the following table. After adjustment procedure, return the values to the initial values you have taken note of (except white balance adjustment).

The values can be set for each input signal (NTSC etc.), but the values are basically the same among the input signals.

Since the values are not adjusted for 525p/750p (because the values change according to the reference adjustment values), you do not have to take note of the values if unnecessary.

| Item | Initial value NTSC | Initial value 525p | Initial value 1125i | Initial value 750p | setting value | contents |
|------|-----------------------|-----------------------|------------------------|-----------------------|---------------|----------|
| S13 | | | | | 255 | R DRIVE |
| S15 | | | | | 255 | G DRIVE |
| S17 | | | | | 255 | B DRIVE |

- (3) Unless otherwise specified in the adjustment instructions, preset the following functions with the remote control unit:

| Setting item | Settings |
|----------------------------------|----------|
| VIDEO STATUS | STANDARD |
| BRIGHT / CONTRAST / COLOR / TINT | 00 |
| COLOR TEMPERATURE | LOW |
| DIG. NOISE CLEAR | OFF |
| COLOR MANEGMENT | STANDARD |
| NATURAL CINEMA | OFF |
| TREBLE / BASS / BALANCE | 00 |
| BBE | OFF |
| A.H.S | OFF |
| A.H.B | OFF |
| ASPECT | FULL |

NOTE:

Follow the order instructed in adjustment procedure.

4.7.2 VIDEO CIRCUIT

| Item | Measuring instrument | Test point | Adjustment part | Description |
|------------------------------------|----------------------|------------|--|--|
| COMPONENT INPUT BLACK LEVEL | Remote control unit | | [8.PP] ADM013: (NO DISPLAY) (G offset) | (1) Input 525i signal that shows brightness gradation with 0% black into a component input terminal. (2) Set "VIDEO STATUS" to STANDARD. (3) Set "ASPECT" to FULL. (4) Select "COLOR TEMPERATURE" to LOW. (5) Select "1.PICTURE/SOUND" from the SERVICE MODE. (6) Set < F44 > (Picture control) to "001" and < F45 > (Picture control mode sw) to "000" to set Y ADJUST MAX MODE. (7) Set < F46 > (Output level upon detection), < F47 > (Minimum value upon detection), and < F48 > (Maximum value upon detection) to values as shown in the left table. (8) Press the [MUTING] key to memoirize the set value. (9) Select "8.PP" from the SERVICE MODE. (10) Adjust < ADM013 > (G OFFSET) to set the 0% black part on the upper half of the screen to maximum brightness. (Fig.2) (11) Add reference offset value "0" to the < ADM013 > (G OFFSET) value. (12) Press the [MUTING] key to memoirize the set value. (13) Select "1.PICTURE/SOUND" from the SERVICE MODE. (14) Check the black level. Adjust the black level again if it is not proper. (15) Set < F44 > (Picture control) to "001" to cancel Y ADJUST MAX MODE. (16) Press the [MUTING] key to memoirize the set value. (17) Input 1125i signal. (18) Repeat steps (5) to (16) above. |
| | Signal generator | | [1. PICTURE/SOUND] S13: RDRV (R DRIVE) S15: GDRV (G DRIVE) S17: BDRV (B DRIVE) S19: CUTR (R CUTOFF) S21: CUTG (G CUTOFF) S23: CUTB (B CUTOFF) F44: (NO DISPLAY) (Picture control) F45: (NO DISPLAY) (Picture control mode sw) F46: OUT LV. (Output level upon detection) F47: LMT BTM (Minimum value upon detection) F48: LMT TOP (Maximum value upon detection) | |

| Item No. | Setting value | Adjustment item |
|----------|---------------|------------------------------|
| F46 | 090 | Output level upon detection |
| F47 | 016 | Minimum value upon detection |
| F48 | 016 | Maximum value upon detection |

Adjust the 0% black to maximum brightness

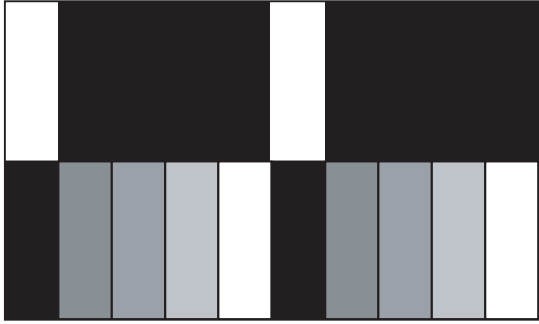


Fig.2

| Item | Measuring instrument | Test point | Adjustment part | Description |
|---|----------------------|------------|---|---|
| COMPONENT INPUT A-D CONVERTER GAIN | Remote control unit | | [8.PP] ADM010: (NO DISPLAY) (G GAIN) | (1) Input 525i 100% all-white signal into a component input terminal. (2) Set "VIDEO STATUS" to STANDARD. (3) Set "ASPECT" to FULL. (4) Select "COLOR TEMPERATURE" to LOW. (5) Select "1.PICTURE/SOUND" from the SERVICE MODE. (6) Set < F44 > (Picture control) to "001" and < F45 > (Picture control mode sw) to "000" to set Y ADJUST MAX MODE. (7) Set < F46 > (Output level upon detection), < F47 > (Minimum value upon detection), and < F48 > (Maximum value upon detection) to values as shown in the left table. (8) Press the [MUTING] key to memoirize the set value. (9) Select "8.PP" from the SERVICE MODE. (10) Adjust < ADM010 > (G GAIN) to set the upper half of the screen to maximum brightness. (Fig.3) (11) Press the [MUTING] key to memoirize the set value. (12) Check the black level. Perform the "BLACK LEVEL Adjustment" again if the adjusted value is not proper. (13) Select "1.PICTURE/SOUND" from the SERVICE MODE. (14) Set < F44 > (Picture control) to "000" to cancel Y ADJUST MAX MODE. (15) Press the [MUTING] key to memoirize the set value. (16) Input 1125i signal. (17) Repeat steps (5) to (15) above. |
| | Signal generator | | [1. PICTURE/SOUND] S13: RDRV (R DRIVE) S15: GDRV (G DRIVE) S17: BDRV (B DRIVE) S19: CUTR (R CUTOFF) S21: CUTG (G CUTOFF) S23: CUTB (B CUTOFF) F44: (NO DISPLAY) (Picture control) F45: (NO DISPLAY) (Picture control mode sw) F46: OUT LV. (Output level upon detection) F47: LMT BTM (Minimum value upon Detection) F48: LMT TOP (Maximum value upon detection) | |

| Item No. | Setting value | Adjustment item |
|----------|---------------|------------------------------|
| F46 | 090 | Output level upon detection |
| F47 | 220 | Minimum value upon detection |
| F48 | 220 | Maximum value upon detection |

Adjust this part to maximum brightness.

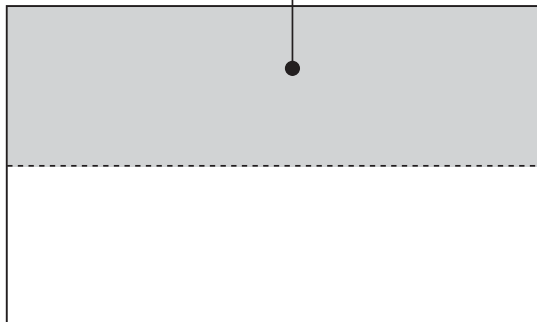


Fig.3

| Item | Measuring instrument | Test point | Adjustment part | Description |
|---|----------------------|------------|--|--|
| COMPONENT INPUT A-D CONVERTER OFFSET | Remote control unit | | [8.PP] ADM012: (NO DISPLAY) (R OFFSET) ADM014: (NO DISPLAY) (B OFFSET) | (1) Input 525i component 30% all-white signal into a component input terminal. (2) Set "VIDEO STATUS" to STANDARD. (3) Set "ASPECT" to FULL. (4) Select "COLOR TEMPERATURE" to LOW. (5) Select "1.PICTURE/SOUND" from the SERVICE MODE. (6) Set < F44 > (Picture control) to "001" and < F45 > (Picture control mode sw) to "003" to set the chrominance adjustment zero mode. (7) Set < F46 > (Output level upon detection), < F47 > (Minimum value upon detection), and < F48 > (Maximum value upon detection) to values as shown in the left table. (8) Press the [MUTING] key to memoirize the set value. (9) Select "8.PP" from the SERVICE MODE. (10) Change the value of < ADM014 > (B OFFSET) from the initial value in the range of ± 5 to set the upper half of the screen magenta. (11) Adjust < ADM012 > (R OFFSET) to change the upper half of the screen from magenta to blue. (12) Take a note of the value of < ADM012 > (R OFFSET) adjusted in (11). (13) Change the value of < ADM012 > (R OFFSET) from the value that you have taken note of in the range of ± 5 to set the upper half of the screen magenta. (14) Adjust < ADM014 > (B OFFSET) to change the upper half of the screen from magenta to red. (15) Return the value of < ADM012 > (R OFFSET) to the value that you have taken note of in (12). (16) Press the [MUTING] key to memoirize the set value. (17) Set the SPLIT screen mode. (18) Input monochrome signal such as cross hatch both to the right and the left screen. (19) Set < ADM012 > (R OFFSET) and < ADM014 > (B OFFSET) to the same values as in single-screen mode. (20) Press the [MUTING] key to memoirize the set value. (21) Set < F44 > (Picture control) to "000" to cancel the chrominance adjustment zero mode. (22) Press the [MUTING] key to memoirize the set value. (23) Input 1125i 30% all-white signal. (24) Repeat steps (5) to (22) above. |
| | Signal generator | | [1. PICTURE/SOUND] S13: RDRV (R DRIVE) S15: GDRV (G DRIVE) S17: BDRV (B DRIVE) S19: CUTR (R CUTOFF) S21: CUTG (G CUTOFF) S23: CUTB (B CUTOFF) F44: (NO DISPLAY) (Picture control) F45: (NO DISPLAY) (Picture control mode sw) F46: OUT LV. (Output level upon detection) F47: LMT BTM (Minimum value upon detection) F48: LMT TOP (Maximum value upon detection) | |

| Item No. | Setting value | Adjustment item |
|----------|---------------|------------------------------|
| F46 | 090 | Output level upon detection |
| F47 | 000 | Minimum value upon detection |
| F48 | 000 | Maximum value upon detection |

Change the color in this part.

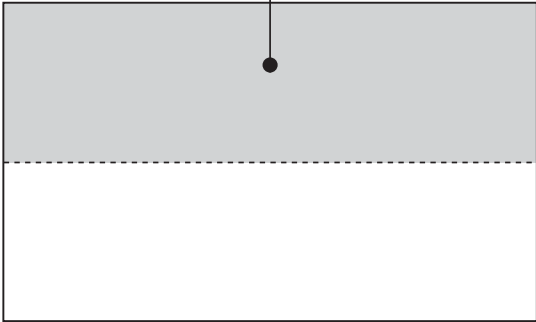


Fig.4

| Item | Measuring instrument | Test point | Adjustment part | Description |
|------------------------------------|---|------------|---|---|
| COMPOSITE INPUT BLACK LEVEL | Remote control unit Signal generator | | <p>[2. YC SEP] YCM131: (NO DISPLAY) (BRIGHTNESS)</p> <p>[1. PICTURE/SOUND] S13: RDRV (R DRIVE) S15: GDRV (G DRIVE) S17: BDRV (B DRIVE) S19: CUTR (R CUTOFF) S21: CUTG (G CUTOFF) S23: CUTB (B CUTOFF)</p> <p>F44: (NO DISPLAY) (Picture control) F45: (NO DISPLAY) (Picture control mode sw) F46: OUT LV. (Output level upon detection) F47: LMT BTM (Minimum value upon detection) F48: LMT TOP (Maximum value upon detection)</p> | <p>(1) Input NTSC signal that shows brightness gradation with 0% black.</p> <p>(2) Set "VIDEO STATUS" to STANDARD.</p> <p>(3) Set "ASPECT" to FULL.</p> <p>(4) Select "COLOR TEMPERATURE" to LOW.</p> <p>(5) Select "1.PICTURE/SOUND" from the SERVICE MODE.</p> <p>(6) Set < F44 > (Picture control) to "001" and < F45 > (Picture control mode sw) to "000" to set Y ADJUST MAX MODE.</p> <p>(7) Set < F46 > (Output level upon detection), < F47 > (Minimum value upon detection), and < F48 > (Maximum value upon detection) to values as shown in the left table.</p> <p>(8) Select "2. YC SEP" from the SERVICE MODE.</p> <p>(9) Adjust < YCM131 > (BRIGHTNESS) so that 0% part of gradation is the brightest. (Fig. 5)</p> <p>(10) Press the [MUTING] key to memoirize the set value.</p> <p>(11) Select "1.PICTURE/SOUND" from the SERVICE MODE.</p> <p>(12) Set < F44 > (Picture control) to "000" to cancel Y ADJUST MAX MODE.</p> <p>(13) Press the [MUTING] key to memoirize the set value.</p> |

| Item No. | Setting value | Adjustment item |
|----------|---------------|------------------------------|
| F46 | 090 | Output level upon detection |
| F47 | 016 | Minimum value upon detection |
| F48 | 016 | Maximum value upon detection |

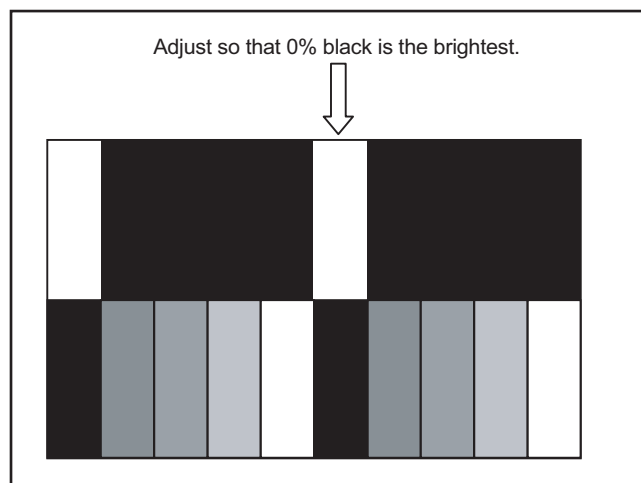


Fig.5

| Item | Measuring instrument | Test point | Adjustment part | Description |
|---|----------------------|------------|---|---|
| COMPOSITE INPUT A-D CONVERTER OFFSET | Remote control unit | | [2. YC SEP] YCM132: (NO DISPLAY) (CONTRAST) | (1) Input a signal that shows brightness gradation with 75% white. (2) Set "VIDEO STATUS" to STANDARD. (3) Set "ASPECT" to FULL. (4) Select "COLOR TEMPERATURE" to LOW. (5) Select "1.PICTURE/SOUND" from the SERVICE MODE. (6) Set < F44 > (Picture control) to "001" and <F45 > (Picture control mode sw) to "000" to set Y ADJUST MAX MODE. (7) Set < F46 > (Output level upon detection), < F47 > (Minimum value upon detection), and < F48 > (Maximum value upon detection) to values as shown in the left table. (8) Select "2.YC SEP" from the SERVICE MODE. (9) Adjust < YCM132 > (CONTRAST) so that the 75% white of gradation is white. (Fig.6) (10) Press the [MUTING] key to memoirize the set value. (11) Check the black level adjusted in composite input black level adjustment. Perform the "Composite input black level Adjustment" again if the adjusted value is not proper. (12) Perform (9) and (10) if you readjust the black level in (11). (13) Select "1.PICTURE/SOUND" from the SERVICE MODE. (14) Set < F44 > (Picture control) to "000" to cancel Y ADJUST MAX MODE. (15) Press the [MUTING] key to memoirize the set value. |
| | Signal generator | | [1. PICTURE/SOUND] S13: RDRV (R DRIVE) S15: GDRV (G DRIVE) S17: BDRV (B DRIVE) S19: CUTR (R CUTOFF) S21: CUTG (G CUTOFF) S23: CUTB (B CUTOFF) F44: (NO DISPLAY) (Picture control) F45: (NO DISPLAY) (Picture control mode sw) F46: OUT LV. (Output level upon detection) F47: LMT BTM (Minimum value upon detection) F48: LMT TOP (Maximum value upon detection) | |

| Item No. | Setting value | Adjustment item |
|----------|---------------|------------------------------|
| F46 | 090 | Output level upon detection |
| F47 | 165 | Minimum value upon detection |
| F48 | 165 | Maximum value upon detection |

Adjust so that 75% white is the brightest.

Adjust so that 75% white is the brightest.

Fig.6

| Item | Measuring instrument | Test point | Adjustment part | Description |
|------------------------------|----------------------|------------|--|--|
| SUB-SCREEN BLACK LEVEL | Remote control unit | | [8. PP] ADM013: (NO DISPLAY) (G offset) | (1) Input NTSC signal that shows brightness gradation with 0% black into both the right and the left screen. |
| | Signal generator | | [1. PICTURE/SOUND] S13: RDRV (R DRIVE) S15: GDRV (G DRIVE) S17: BDRV (B DRIVE) S19: CUTR (R CUTOFF) S21: CUTG (G CUTOFF) S23: CUTB (B CUTOFF) F44: (NO DISPLAY) (Picture control) F45: (NO DISPLAY) (Picture control mode sw) F46: OUT LV. (Output level upon detection) F47: LMT BTM (Minimum value upon detection) F48: LMT TOP (Maximum value upon detection) | (2) Set "VIDEO STATUS" to STANDARD. (3) Set "ASPECT" to FULL. (4) Select "COLOR TEMPERATURE" to LOW. (5) Set SPLIT screen mode. (6) Select "1.PICTURE/SOUND" from the SERVICE MODE for the right screen. (7) Set < F44 > (Picture control) to "001" and <F45 > (Picture control mode sw) to "000" to set Y ADJUST MAX MODE. (8) Set < F46 > (Output level upon detection), < F47 > (Minimum value upon detection), and < F48 > (Maximum value upon detection) to values as shown in the left table. (9) Press the [MUTING] key to memoirize the set value. (10) Select "8.PP" from the SERVICE MODE. (11) Adjust < ADM013 > (G OFFSET) to set the 0% black part on the upper right half of the screen to the same color as on the upper left half of the screen. (Fig.7) (12) Press the [MUTING] key to memoirize the set value. (13) Select "1.PICTURE/SOUND" from the SERVICE MODE. (14) Set < F44 > (Picture control) to "000" to cancel Y ADJUST MAX MODE (15) Press the [MUTING] key to memoirize the set value. |

| Item No. | Setting value | Adjustment item |
|----------|---------------|------------------------------|
| F46 | 090 | Output level upon detection |
| F47 | 016 | Minimum value upon detection |
| F48 | 016 | Maximum value upon detection |

SPLIT screen mode

Set the 0% black part in this part to the same black color as on the left screen.

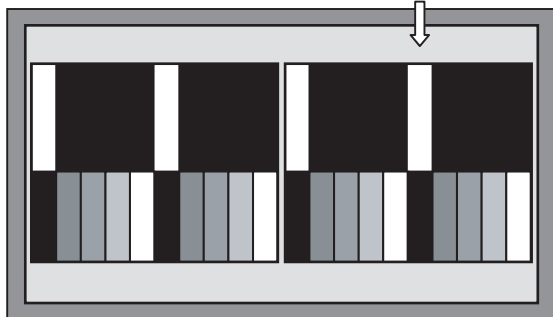


Fig.7

| Item | Measuring instrument | Test point | Adjustment part | Description |
|--------------------------------------|----------------------|------------|--|--|
| SUB-SCREEN A-D CONVERTER GAIN | Remote control unit | | [8. PP] ADM010: (NO DISPLAY) (G GAIN) | (1) Input NTSC signal that shows brightness gradation with 75% white into both the right and the left screen. (2) Set "VIDEO STATUS" to STANDARD. (3) Set "ASPECT" to FULL. (4) Select "COLOR TEMPERATURE" to LOW. (5) Set SPLIT screen mode. (6) Select "1.PICTURE/SOUND" from the SERVICE MODE for the right screen. (7) Set < F44 > (Picture control) to "001" and <F45 > (Picture control mode sw) to "000" to set Y ADJUST MAX mode. (8) Set < F46 > (Output level upon detection), < F47 > (Minimum value upon detection), and < F48 > (Maximum value upon detection) to values as shown in the left table. (9) Press the [MUTING] key to memoirize the set value. (10) Select "8.PP" from the SERVICE MODE. (11) Adjust < ADM010 > (G OFFSET) so that the 75% white part on the upper right part of the screen is white. (Fig.8) (12) Press the [MUTING] key to memoirize the set value. (13) Check the black level adjusted in "SPLIT screen BLACK LEVEL adjustment". Adjust the black level of SUB SCREEN again if it is not proper. (14) Select "1.PICTURE/SOUND" from the SERVICE MODE. (15) Set < F44 > (Picture control) to "000" to cancel Y ADJUST MAX MODE. (16) Press the [MUTING] key to memoirize the set value. |
| | Signal generator | | [1. PICTURE/SOUND] S13: RDRV (R DRIVE) S15: GDRV (G DRIVE) S17: BDRV (B DRIVE) S19: CUTR (R CUTOFF) S21: CUTG (G CUTOFF) S23: CUTB (B CUTOFF) F44: (NO DISPLAY) (Picture control) F45: (NO DISPLAY) (Picture control mode sw) F46: OUT LV. (Output level upon detection) F47: LMT BTM (Minimum value upon detection) F48: LMT TOP (Maximum value upon detection) | |

| Item No. | Setting value | Adjustment item |
|----------|---------------|------------------------------|
| F46 | 090 | Output level upon detection |
| F47 | 168 | Minimum value upon detection |
| F48 | 168 | Maximum value upon detection |

SPLIT screen mode

Adjust so that 75% white is the brightest.

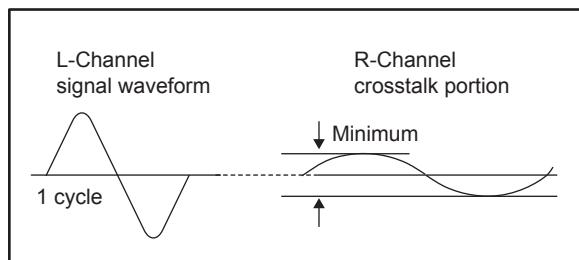
Adjust so that 75% white is the brightest.

Fig.8

| Item | Measuring instrument | Test point | Adjustment part | Description |
|----------------------------------|---|------------|---|---|
| WHITE BALANCE (HIGHLIGHT) | Remote control unit Signal generator | | [1. PICTURE/SOUND] S13: RDRV (R DRIVE) S15: GDRV (G DRIVE) S17: BDRV (B DRIVE) S19: CUTR (R CUTOFF) S21: CUTG (G CUTOFF) | (1) Input NTSC 75% all-white signal. (2) Set "VIDEO STATUS" to STANDARD. (3) Set "ASPECT" to FULL. (4) Select "COLOR TEMPERATURE" to LOW. (5) Select "1.PICTURE/SOUND" from the SERVICE MODE. (6) Fix one of < S13 > (R DRIVE), < S15 > (G DRIVE), or < S17 > (B DRIVE). Lower the two that are not fixed so that the all-white screen is equally white throughout. Set one or more of < S13 >, < S15 >, and < S17 > to "255". (7) Check that white balance is properly tracked from lowlight to highlight. (8) Press the [MUTING] key to memoirize the set value. (9) Input 1125i 75% all-white signal. (10) Repeat steps (5) to (8) above. (11) Input 525i all-white signal. (12) Repeat steps (5) to (8) above. |

4.7.3 MTS CIRCUIT

| Item | Measuring instrument | Test point | Adjustment part | Description |
|------------------------|--|----------------|--|--|
| MTS INPUT LEVEL | MPX Signal generator Remote control unit | | [1.PICTURE/SOUND] A18: IN LEVEL | (1) Input the color bar signal (400Hz). (2) Select 1.PICTURE/SOUND from the SERVICE MODE. (3) Verify that the < A18 > (IN LEVEL) is set at its initial setting value. (4) Press the [MUTING] key to memorize the set value. |
| MTS SEPARATION | TV audio multiplex signal generator Oscilloscope Remote control unit | L OUT R OUT | [1.PICTURE/SOUND] A19: LOW SEP A20: HI SEP | (1) Input the stereo L signal (300Hz) from the TV audio multiplex signal generator to the antenna terminal. (2) Connect an oscilloscope to L OUT pin of the MONITOR OUT, and display one cycle portion of the 300Hz signal. (3) Change the connection of the oscilloscope to R OUT pin of the MONITOR OUT, and enlarge the voltage axis. (4) Select 1.PICTURE/SOUND from the SERVICE MODE. (5) Set the initial setting value of the < A19 > (LOW SEP). (6) Adjust the < A19 > so that the stroke element of the 300Hz signal will become minimum. (7) Change the signal to 3kHz, and similarly adjust the < A20 > (HI SEP). (8) Press the [MUTING] key to memorize the set value. |



SECTION 5 TROUBLESHOOTING

5.1 SELF-DIAGNOSIS FEATURE

5.1.1 OUTLINE

This unit comes with the "Self-diagnosis" feature, which checks the operational state of the circuit and displays/saves it during failure. Diagnosis is performed when power is turned on, and information input to the main microcomputer is monitored at all time. Diagnosis is displayed in 2 ways via screen display and LED flashes. Failure detection is based on input state of I²C bus and the various control lines connected to the main microcomputer.

5.1.2 HOW TO ENTER THE SELF-DIAGNOSIS DISPLAY MODE

Before entering the Self-diagnosis Display mode, confirm that the setting of TV / CATV SW of the REMOTE CONTROL UNIT is at the "TV" side and the setting of VCR / DVD SW is at the "VCR" side. If the switches have not been properly set, you cannot enter the Self-diagnosis Display mode.

- (1) Press the [SLEEP TIMER] key and set it to 30 minutes.
- (2) Press the [VIDEO STATUS] key and [DISPLY] key simultaneously, then enter the TEST MODE.
- (3) Press the [4] key (Self-diagnosis Display mode) before the service mode screen disappears.
- (4) Press the [MTS] key to enter Page 2 of the Self-diagnosis Display mode.

*Use the [MTS] key to toggle between Page 1 and Page 2.

NOTE:

The remote control unit attached to this set does not contain the [MTS] key. To perform the procedure (4), use a remote control unit that contains the [MTS] key.

5.1.3 HOW TO EXIT THE SELF-DIAGNOSIS DISPLAY MODE

To Save Failure History:

Turn off the power by unplugging the AC power cord plug when in the self-diagnosis display mode.

To Clear (Reset) Failure History:

Turn off the power by pressing the [POWER] key on the remote control unit when in the self-diagnosis display mode.

5.1.4 FAILURE HISTORY

Failure history can be counted up to 9 times for each item. When the number exceeds 9, display will remain as 9. Failure history will be stored in the memory unless it has been deleted.

NOTE:

Only SYNC (with/without sync signals) will be neither counted nor stored.

5.1.5 POINTS TO NOTE WHEN USING THE SELF-DIAGNOSIS FEATURE

In addition to circuit failures (abnormal operation), the following cases may also be diagnosed as "Abnormal" and displayed and counted as "NG".

- (1) Temporary defective transmissions across circuits due to pulse interruptions
- (2) Misalignment in the on/off timing of power for I²C bus (VCC) when turning on/off the main power.

Diagnosis may be impeded if a large number of items are displayed as "NG". As such, start self-diagnosis check only after 3 seconds in the case of receivers and 5 seconds in the case of panels upon turning on the power. If recurrences are expected, ensure to clear (reset) the failure history and record the new diagnosis results.

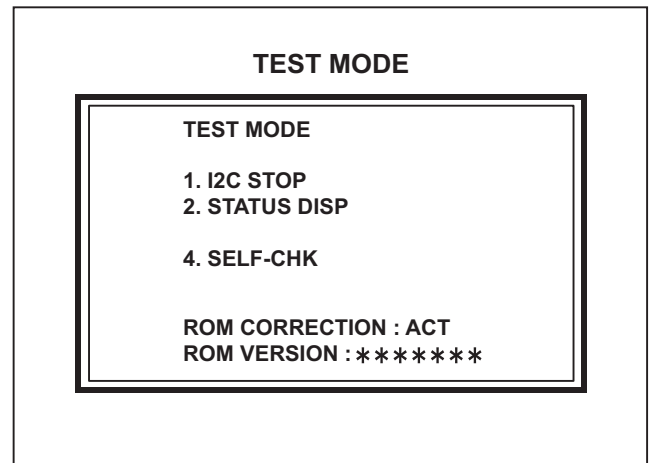


Fig.1

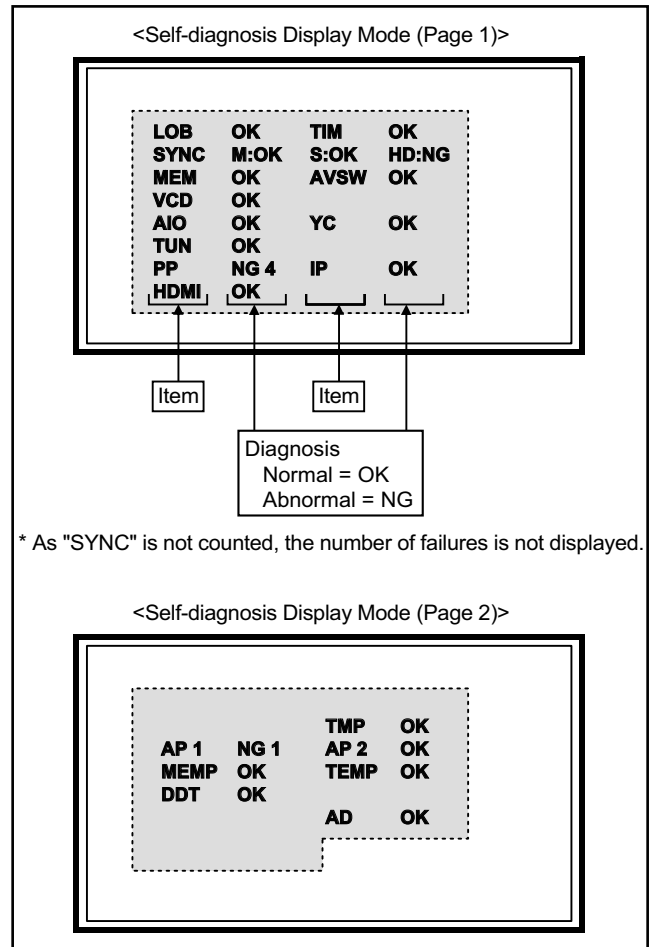


Fig.2

5.1.6 DETAILS

Self-diagnosis is performed for the following items:

• PAGE 1

| Item | Display | Description of detection | Diagnosis signal (line) | Means of detection |
|-----------------------------|---------|---|-------------------------|--|
| LOW B LINE SHORT PROTECTION | LOB | Was Low B line short protector activated? No. of times short circuit protection is triggered [POWER PWB] (3.3V / LCD 5V / 9V / 13V / AVCC) | PROTECTOR | Detection starts 3 seconds upon power on Turns off power if NG is detected within 200ms |
| TIMER | TIM | Did power supply frequency fluctuated from: 50Hz → 60Hz 60Hz → 50Hz Number of counts [POWER PWB (PC9001)] | AC | Regularly detects power supply frequency by AC pulse counts and monitors frequency fluctuations other than instances immediately after reset |
| WITH / WITHOUT SYNC SIGNALS | SYNC | Are there synchronized signals? HD: Color difference synchronized signals M: Main synchronized signals S: Sub synchronized signals [IC1211] | SDA | Checks whether there are synchronized signal in video signal |
| MEMORY | MEM | Is ACK returned during I ² C transmission? [IC1703] | SDA | Monitors upon every I ² C transmission and counts if ACK is not returned |
| AV SWITCH | AVSW | Same as above [IC1301] | SDA | Same as above |
| VIDEO CHROMA | VCD | Same as above [IC7301] | SDA | Same as above |
| AUDIO PROCESSING | AIO | Same as above [IC6501] | SDA | Same as above |
| 3D Y/C SEPARATION | YC | Same as above [IC3001] | SDA | Same as above |
| RF TUNER | TUN | Same as above [TU1101] | SDA | Same as above |
| MULTI-SCREEN PROCESSING | PP | Is ACK returned during I ² C transmission? | SDA | Monitors upon every I ² C transmission and counts if ACK is not returned |
| DIST PROCESSING | IP | Same as above [IC201] | SDA | Same as above |
| HDMI | HDMI | Not used (Only display) | ---- | ---- |

• PAGE 2

| Item | Display | Description of detection | Diagnosis signal (line) | Means of detection |
|-------------------------------|---------|--|-------------------------|--|
| DEFECTIVE AUDIO OUTPUT PART | AP1 | Detects short and abnormal temperature in audio circuit. [IC6641] | SDA | Detection starts 3 seconds upon power on. Performs detection every 16ms. If NG lasts for 300ms, audio output part is defective. Controls [/AMP_RST] to [L]→(0.5S)→[H]. Monitors again, and turns off power if the defect is not corrected within 3 seconds. |
| | AP2 | Fault load of audio output part. [IC6641] | | |
| DEVICE DRIVE COLOR MANAGEMENT | DDT | Is ACK returned during I ² C transmission? [IC401] | SDA | Monitors upon every I ² C transmission and counts if ACK is not returned. |
| A-D CONVERTER | AD | Is ACK returned during I ² C transmission? [IC001] | SDA | Monitors upon every I ² C transmission and counts if ACK is not returned. |

5.1.7 DISPLAY METHOD WHEN RASTER IS NOT AVAILABLE

When raster is not displayed due to failure of the set, the POWER LED light will flash to indicate the ailure mode. Trigger for forced shutdown of power is stored and displayed.

| Trigger of error | Display | LED flash cycle of display unit |
|-----------------------------|---------|---------------------------------|
| LOW B LINE SHORT PROTECTION | LOB | Blue every 1.0 sec |
| DEFECTIVE AUDIO OUTPUT PART | AP1 | Blue every 0.1 sec |
| | AP2 | Blue every 0.5 sec |

Details on Operation

Power of TV will be turned off when NG is detected for LOW B short Protection". "POWER LED" will start flashing immediately after power is turned off and power of tuner and panel cannot be turned on upon shutdown until the AC plugs are disconnected once and reconnected.



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(No.YA090)



Printed in Japan
WPC

JVC

SERVICE MANUAL

LCD FLAT TELEVISION

LT-32WX84 /K

BASIC CHASSIS

SB5

Supplementary

Here is some information related to the exchange of CONTROL PWB in the LCD PANEL UNIT.
For details other than those described in this manual, please refer to the LT-32WX84/K service manual (No.YA090, 2004/3).

HOW TO DIFFERENTIATE LCD PANEL UNIT

Two types of LCD PANEL UNITS are used in this model. Make sure to confirm the parts No. of LCD PANEL UNIT before exchanging CONTROL PWB. As PARTS No. is not described on the LCD PANEL UNIT, differentiate two types by checking the RATING LABEL(Revision) fixed on the back of the LCD PANEL UNIT.

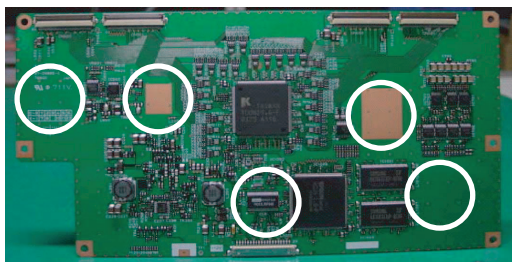
Revision described part

| Revision | LCD PANEL UNIT PARTS NO. |
|----------|--------------------------|
| C | QLD0304-001 |
| D | QLD0304-002 |

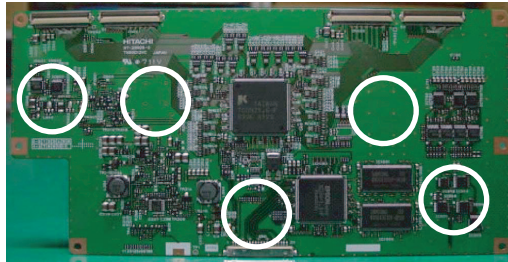


HOW TO DIFFERENTIATE CONTROL PWB

CONTROL PWB which is to be exchanged differ according to the PARTS No. of the LCD PANEL UNIT.
Two types of CONTROL PWBS can be differentiate by checking the parts as shown as below.



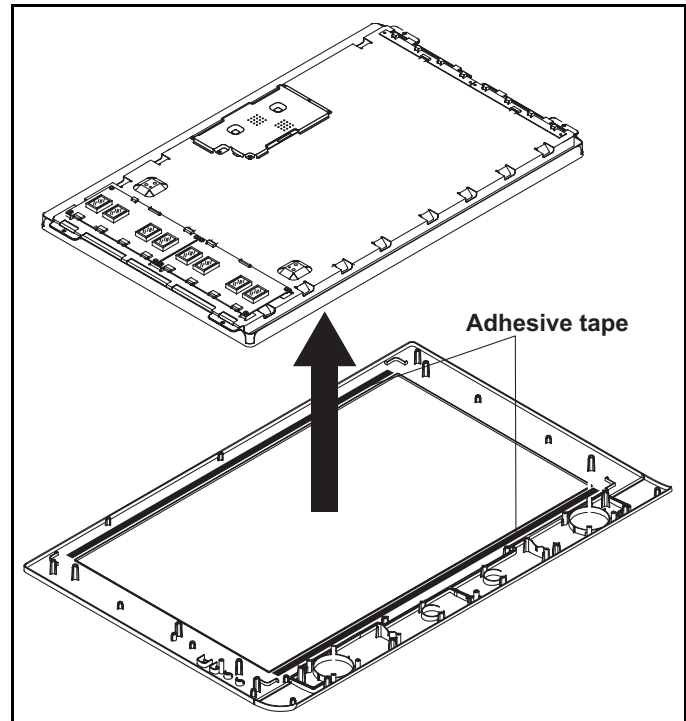
CONTORL PWB for QLD0304-001
(QLD0304-001TCON)



CONTORL PWB for QLD0304-002
(QLD0304-002TCON)

REMOVING THE LCD PANEL UNIT

The LCD PANEL is fixed to the FRONT PANEL (at the back side) by using double-side adhesive tapes. To remove the LCD PANEL UNIT, remove the adhesive tape on the FRONT PANEL slowly.



CHANGING THE CONTROL PWB

CONFIRMATION PRIOR TO DISASSEMBLY

Before disassemble the LCD PANEL UNIT, confirm that there is no damage in the LCD PANEL UNIT (polarizer).

1. DISASSEMBLY OF LCD PANEL

For removing the LCD PANEL UNIT, see page 1-13 "3.1.10 REMOVING THE LCD PANEL UNIT" in LT-32WX84/K service manual.

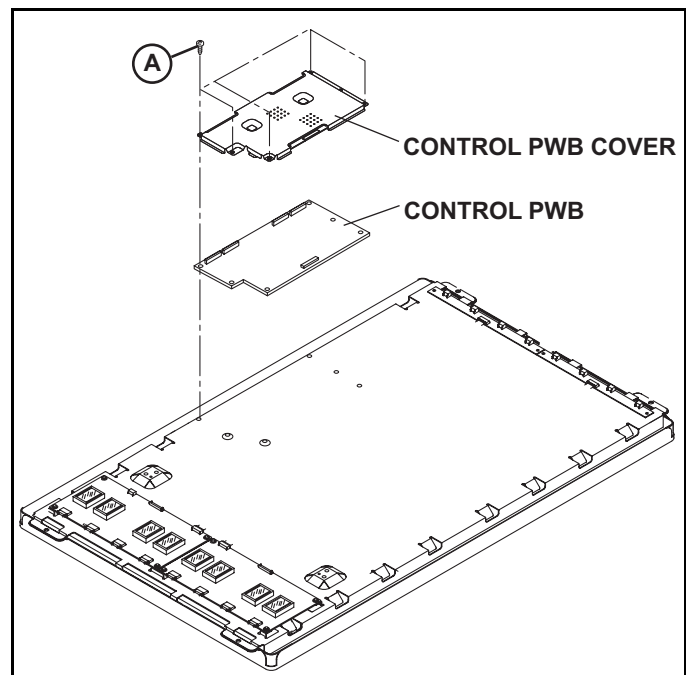
1.1 REMOVING THE CONTROL PWB

- Place the LCD PANEL with its backside facing upward. Be careful not to damage the surface of the screen.
- (1) Remove the 6 screws [A], and remove the CONTROL PWB COVER.
- (2) Remove the claws in the connectors, and pull out to remove the FLEXIBLE WIRE.

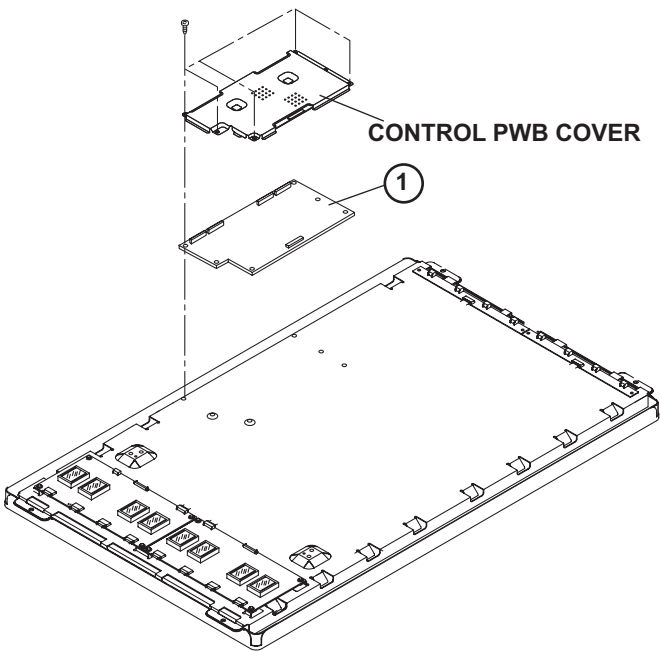
NOTE:

Be careful not to damage the FLEXIBLE WIRE. Especially during assembly procedure, be careful not to insert the FLEXIBLE WIRE in the LCD PANEL UNIT.

- (3) Remove the CONTROL PWB.



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

CONTROL PWB which is to be exchanged differ according to the PARTS No. of the LCD PANEL UNIT. Be sure to confirm the PARTS No. of the LCD PANEL UNIT without fail.

| ⚠ | Ref. No. | Part No. | Part name | Description |
|---|----------|-----------------|-------------|-----------------|
| ⚠ | 1 | QLD0304-001TCON | CONTROL PWB | For QLD0304-001 |
| ⚠ | 1 | QLD0304-002TCON | CONTROL PWB | For QLD0304-002 |

* No parts other than a CONTROL PWB are supplied. Exchange the whole unit for other parts repair.



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(No.YA090B)



Printed in Japan
WPC

PARTS LIST

CAUTION

- The parts identified by the Δ symbol are important for the safety . Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines --- in the Parts No. columns will not be supplied.
- P.W. BOARD Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

| RESISTORS | | CAPACITORS | |
|-----------|--|-----------------|---|
| CR | Carbon Resistor | C CAP. | Ceramic Capacitor |
| FR | Fusible Resistor | E CAP. | Electrolytic Capacitor |
| PR | Plate Resistor | M CAP. | Mylar Capacitor |
| VR | Variable Resistor | CH CAP. | Chip Capacitor |
| HV R | High Voltage Resistor | HV CAP. | High Voltage Capacitor |
| MF R | Metal Film Resistor | MF CAP. | Metalized Film Capacitor |
| MG R | Metal Glazed Resistor | MM CAP. | Metalized Mylar Capacitor |
| MP R | Metal Plate Resistor | MP CAP. | Metalized Polystyrol Capacitor |
| OM R | Metal Oxide Film Resistor | PP CAP. | Polypropylene Capacitor |
| CMF R | Coating Metal Film Resistor | PS CAP. | Polystyrol Capacitor |
| UNF R | Non-Flammable Resistor | TF CAP. | Thin Film Capacitor |
| CH V R | Chip Variable Resistor | MPP CAP. | Metalized Polypropylene Capacitor |
| CH MG R | Chip Metal Glazed Resistor | TAN. CAP. | Tantalum Capacitor |
| COMP. R | Composition Resistor | CH C CAP. | Chip Ceramic Capacitor |
| LPTC R | Linear Positive Temperature Coefficient Resistor | BP E CAP. | Bi-Polar Electrolytic Capacitor |
| | | CH AL E CAP. | Chip Aluminum Electrolytic Capacitor |
| | | CH AL BP CAP. | Chip Aluminum Bi-Polar Capacitor |
| | | CH TAN. E CAP. | Chip Tantalum Electrolytic Capacitor |
| | | CH AL BP E CAP. | Chip Tantalum Bi-Polar Electrolytic Capacitor |

| RESISTORS | | | | | | | | | |
|-----------|-----|-----|------|------|------|--------------|--------------|--------------|--------------|
| F | G | J | K | M | N | R | H | Z | P |
| ±1% | ±2% | ±5% | ±10% | ±20% | ±30% | +30% -10% | +50% -10% | +80% -20% | +100% -0% |

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PRINTED WIRING BOARD PARTS LIST

| | |
|--|------|
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| POWER P.W.BOARD ASSY (LCA90149-07F) (SSB-9091A) | 3-8 |
| REGULATOR P.W.BOARD ASSY (LCA90150-07D) (SSB-9191A) | 3-9 |
| RECEIVER P.W.BOARD ASSY (LCA90182-01B) (SSB-0J086A) | 3-10 |
| FRONT SENSOR P.W.BOARD ASSY (LCA90155-03B) (SSB-0L286A) | 3-12 |
| FRONT CONTROL P.W.BOARD ASSY (LCA90154-03D) (SSB-0L386A) | 3-12 |
| MI-COM & DIST MODULE P.W.BOARD (LCA10291-05A) (SSB-0D099A) | 3-13 |
| DIGITAL INPUT MODULE P.W.BOARD (32WX84KCP-S) | 3-13 |

| | |
|---|------|
| REMOTE CONTROL UNIT PARTS LIST (RM-C13G-1H) | 3-13 |
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| | |
|---------------|------|
| PACKING | 3-14 |
|---------------|------|

| | |
|--------------------------|------|
| PACKING PARTS LIST | 3-14 |
|--------------------------|------|

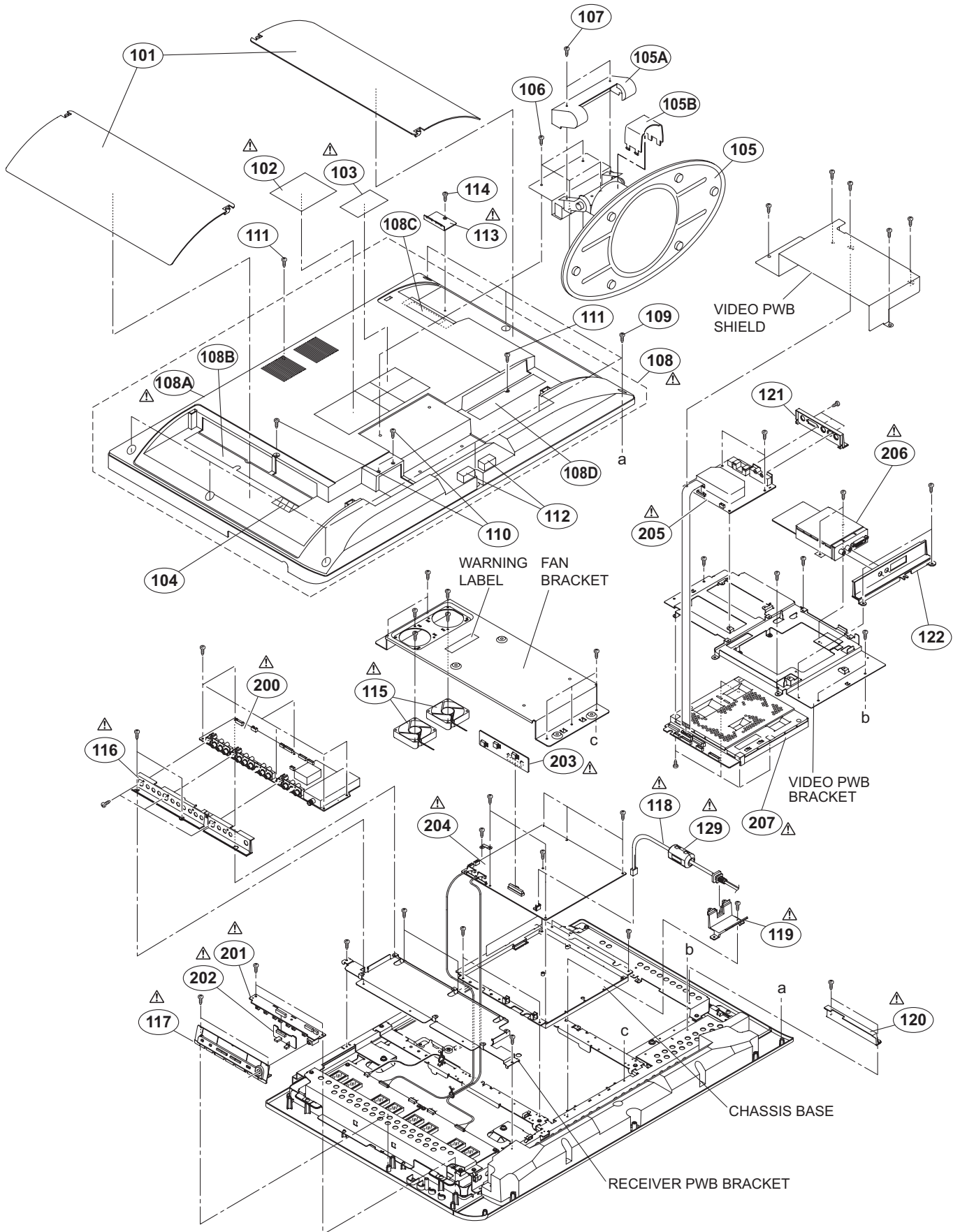
USING P.W. BOARD & REMOTE CONTROL UNIT

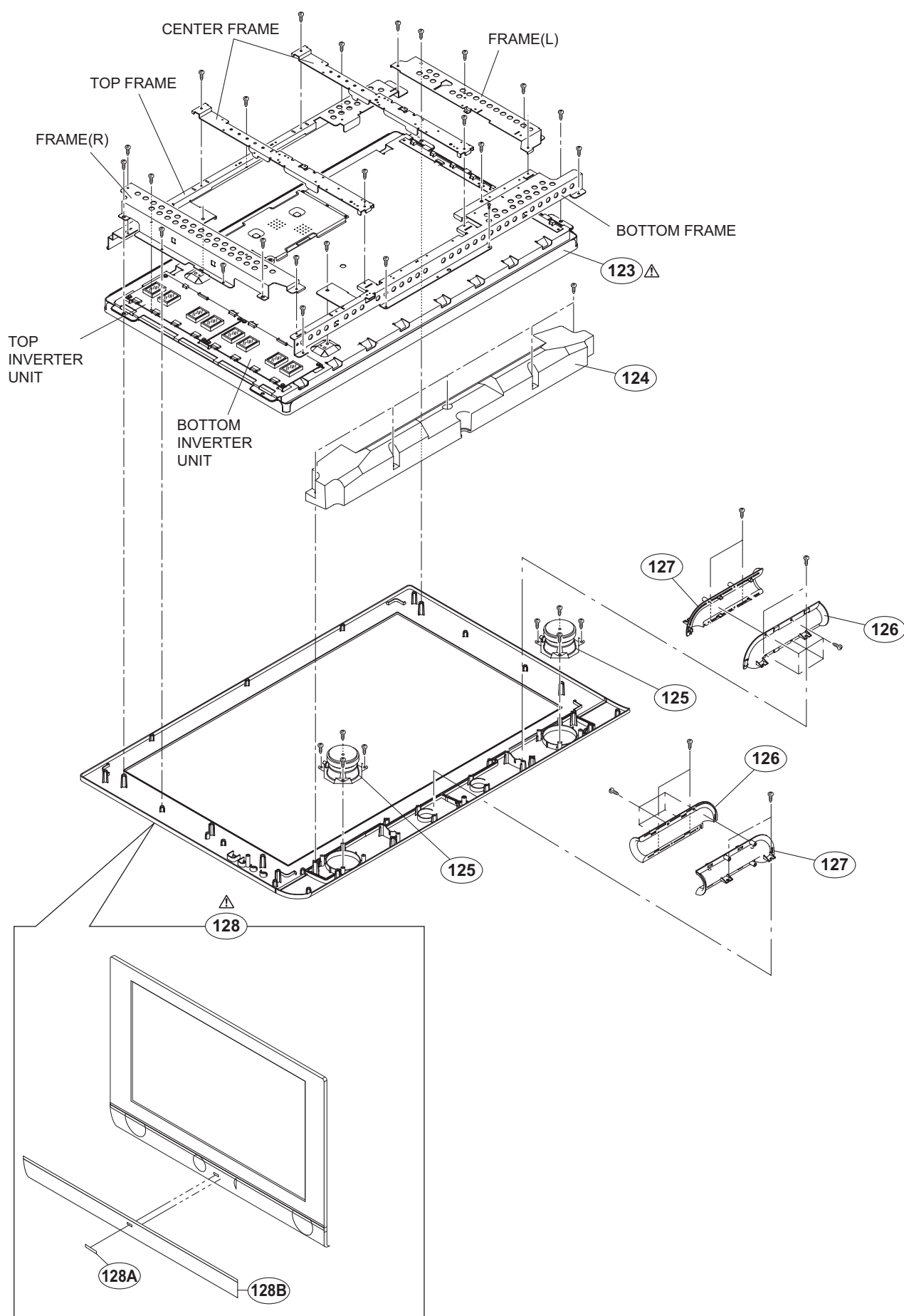
| P.W.B ASS'Y | P.W.B ASS'Y No. |
|----------------------------|---------------------------|
| VIDEO P.W.B | LCA90152-03C (SSB-1086A) |
| POWER P.W.B | LCA90149-07F (SSB-9091A) |
| REGULATOR P.W.B | LCA90150-07D (SSB-9191A) |
| RECEIVER P.W.B | LCA90182-01B (SSB-0J086A) |
| FRONT SENSOR P.W.B | LCA90155-03B (SSB-0L286A) |
| FRONT CONTROL P.W.B | LCA90154-03D (SSB-0L386A) |
| MI-CON & DIST MODULE P.W.B | LCA10291-05A (SSB-0D099A) |
| DIGITAL INPUT MODULE P.W.B | 32WX84KCP-S |
| REMOTE CONTROL UNIT | RM-C13G-1H |

EXPLODED VIEW PARTS LIST

| △ | Ref.No. | Part No. | Part Name | Description | Local |
|---|---------|-----------------|--------------------------|------------------|-------|
| | 101 | LC11686-001B | JACK COVER | (x2) | |
| △ | 102 | LC21594-001A-OL | RATING LABEL | | |
| △ | 103 | LC41424-002A | HDCP WARNING | | |
| | 104 | LC41749-001A | CAUTION LABEL | | |
| | 105 | LC41609-001C | STAND ASSY | Inc.No.105A-105B | |
| | 105A | N0354 | STAND COVER | | |
| | 105B | N0355 | CORD HOLDER | | |
| | 106 | LC30599-068A | STICK SHEET | | |
| | 107 | QYSPSPD3008N | SCREW | 3mm x 8mm(x2) | |
| △ | 108 | LC11689-002A | REAR PANEL ASSY | Inc.No.108A-108D | |
| △ | 108A | LC11685-002A | REAR COVER | | |
| | 108B | LC32367-002A | OPERATION SHEET | | |
| | 108C | LC32368-002A | OPERATION SHEET | | |
| | 108D | LC32370-004A | OPERATION SHEET | | |
| | 109 | QYSBSFG4016M | TAP SCREW | 4.0mm x 16mm(x7) | |
| | 110 | QYSSSF3010M | TAP SCREW | M3 x 10mm(x3) | |
| | 111 | QYSPSPD3008M | SCREW | 3mm x 8mm(x2) | |
| | 112 | LC30599-054A | STICK SHEET | (x2) | |
| △ | 113 | LC32366-001A-HK | SERVICE COVER | | |
| | 114 | QYSBSF3008M | TAP SCREW | 3mm x 8mm | |
| △ | 115 | QAR0295-002 | COOLING FAN | (x2) | |
| △ | 116 | LC21334-001D | TERMINAL BASE | | |
| △ | 117 | LC32351-002A | CONT KNOB ASSY | | |
| △ | 118 | QMPR610-170-JC | POWER CORD | 1.7m BLACK | |
| △ | 119 | LC21348-001D-HK | POWER CORD HOLDER | | |
| △ | 120 | LC21349-002A-HK | CARD BASE | | |
| △ | 121 | LC32346-002A | JACK BASE | | |
| △ | 122 | LC32348-004A | DIGITAL INPUT BASE | | |
| △ | 123 | QLD0304-002 | LCD PANEL MODULE | | |
| | 124 | LC11633-001B | SPEAKER BOX | | |
| | 125 | QAS0142-001 | SPEAKER | SP01/SP02(x2) | |
| | 126 | LC21339-001A-HK | DUCT BASE | (x2) | |
| | 127 | LC21340-001B-HK | DUCT COVER | (x2) | |
| △ | 128 | LC11688-002B | ERONT PANEL ASSY | Inc.No.128A-128B | |
| | 128A | CM48006-010-C | JVC MARK | | |
| | 128B | LC11692-001A | PUNCHING SHEET | | |
| △ | 129 | QQR1193-001 | CORE FILTER | For POWER CORD | |
| △ | 200 | LCA90182-01B | RECEIVER PWB | | |
| △ | 201 | LCA90154-03D | FRONT CONTROL PWB | | |
| △ | 202 | LCA90155-03B | FRONT SENSOR PWB | | |
| △ | 203 | LCA90150-07D | REGULATOR PWB | | |
| △ | 204 | LCA90149-07F | POWER PWB | | |
| △ | 205 | LCA90152-03C | VIDEO PWB | | |
| △ | 206 | LCA10352-26A | DIGITAL INPUT MODULE PWB | | |
| △ | 207 | LCA10291-05A | MI-CON & DIST MODULE PWB | | |

EXPLODED VIEW





PRINTED WIRING BOARD PARTS LIST

VIDEO P.W.BOARD ASSY (LCA90152-03C) (SSB-1086A)

| △Ref No. | Part No. | Part Name | Description Local | △Ref No. | Part No. | Part Name | Description Local |
|----------|----------------|----------------|-------------------|----------|--------------|----------------|-------------------|
| IC1211 | TA1318N | IC | | C3006 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z |
| IC1212 | SN74AHC2G08T-X | IC | | C3007 | NCB31AK-334X | C CAPACITOR | 0.33uF 10V K |
| IC1301 | AN15852A | IC | | C3008 | NDC31HJ-151X | C CAPACITOR | 150pF 50V J |
| IC3001 | MN82832 | IC | | C3009 | NDC31HJ-121X | C CAPACITOR | 120pF 50V J |
| IC3002 | R1170H331B-X | IC | | C3010 | NDC31HJ-150X | C CAPACITOR | 15pF 50V J |
| Q1232 | 2SA1530A/QR/-X | SI TRANSISTOR | | C3011 | NCF11CZ-475X | C CAPACITOR | 4.7uF 16V Z |
| Q1301 | 2SC3837K/NP/-X | TRANSISTOR | | C3012 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z |
| Q1302 | 2SC3837K/NP/-X | TRANSISTOR | | C3013 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z |
| Q1303 | 2SC3837K/NP/-X | TRANSISTOR | | C3014 | QETN1CM-107Z | E CAPACITOR | 100uF 16V M |
| Q3001 | 2SC3928A/QR/-X | TRANSISTOR | | C3015 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z |
| Q3002 | 2SC3928A/QR/-X | TRANSISTOR | | C3016 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z |
| Q3003 | 2SA1530A/QR/-X | SI TRANSISTOR | | C3017 | QENC1HM-475Z | BP E CAPACITOR | 4.7uF 50V M |
| Q3004 | 2SC3928A/QR/-X | TRANSISTOR | | C3018 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z |
| Q3005 | 2SC3928A/QR/-X | TRANSISTOR | | C3019 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K |
| Q3006 | 2SA1530A/QR/-X | SI TRANSISTOR | | C3020 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K |
| Q3007 | 2SA1530A/QR/-X | SI TRANSISTOR | | C3021 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K |
| Q3501 | 2SA1530A/QR/-X | SI TRANSISTOR | | C3022 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z |
| Q3502 | 2SC3928A/QR/-X | TRANSISTOR | | C3023 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z |
| Q3505 | 2SA1530A/QR/-X | SI TRANSISTOR | | C3024 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z |
| Q3506 | 2SC3928A/QR/-X | TRANSISTOR | | C3025 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M |
| Q3509 | 2SA1530A/QR/-X | SI TRANSISTOR | | C3026 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z |
| Q3510 | 2SC3928A/QR/-X | TRANSISTOR | | C3027 | NDC31HJ-7R0X | C CAPACITOR | 7pF 50V J |
| D2402 | MA8100/M/-X | Z DIODE | | C3028 | NDC31HJ-7R0X | C CAPACITOR | 7pF 50V J |
| D2404 | MA8100/M/-X | Z DIODE | | C3029 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z |
| D2405 | MA8100/M/-X | Z DIODE | | C3030 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z |
| C1213 | QETN1CM-107Z | E CAPACITOR | 100uF 16V M | C3031 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z |
| C1214 | QETN1HM-225Z | E CAPACITOR | 2.2uF 50V M | C3032 | NDC31HJ-560X | C CAPACITOR | 56pF 50V J |
| C1215 | QFLC1HJ-103Z | M CAPACITOR | 0.01uF 50V J | C3033 | NDC31HJ-330X | C CAPACITOR | 33pF 50V J |
| C1216 | NCF11CZ-475X | C CAPACITOR | 4.7uF 16V Z | C3034 | NDC31HJ-560X | C CAPACITOR | 56pF 50V J |
| C1218 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | C3035 | NDC31HJ-330X | C CAPACITOR | 33pF 50V J |
| C1219 | NCF11CZ-475X | C CAPACITOR | 4.7uF 16V Z | C3036 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z |
| C1233 | NDC31HJ-180X | C CAPACITOR | 18pF 50V J | C3037 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z |
| C1301 | QETN1CM-107Z | E CAPACITOR | 100uF 16V M | C3038 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z |
| C1302 | QETN1CM-107Z | E CAPACITOR | 100uF 16V M | C3039 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z |
| C1303 | NCB11CK-225X | C CAPACITOR | 2.2uF 16V K | C3041 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M |
| C1304 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | C3042 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K |
| C1305 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | C3044 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K |
| C1306 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | C3045 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K |
| C1307 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | C3046 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K |
| C1311 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | C3047 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M |
| C1312 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | C3048 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K |
| C1313 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | C3049 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K |
| C1314 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | C3050 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K |
| C1315 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | C3051 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K |
| C1322 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | C3052 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K |
| C1323 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | C3053 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K |
| C1324 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | C3054 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K |
| C1325 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | C3055 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K |
| C1326 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | C3056 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K |
| C1327 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | C3057 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M |
| C1328 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | C3058 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z |
| C1332 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | C3059 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M |
| C1333 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | C3060 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z |
| C1342 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | C3061 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M |
| C1343 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | C3062 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z |
| C1354 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | C3063 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M |
| C1355 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | C3064 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z |
| C1356 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | C3065 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M |
| C1361 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | C3066 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z |
| C1362 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | C3068 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K |
| C1363 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | C3069 | QETN1CM-476Z | E CAPACITOR | 47uF 16V M |
| C1364 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | C3070 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K |
| C1365 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | C3071 | QETN1CM-476Z | E CAPACITOR | 47uF 16V M |
| C1372 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | C3072 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z |
| C1382 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | C3073 | NCB10JK-106X | C CAPACITOR | 10uF 6.3V K |
| C1392 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | C3074 | NDC31HJ-680X | C CAPACITOR | 68pF 50V J |
| C2321 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | C3077 | NCB31AK-334X | C CAPACITOR | 0.33uF 10V K |
| C2322 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | C3078 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z |
| C2323 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | C3080 | QBTC1CK-106Z | TA E CAPACITOR | 10uF 16V K |
| C2341 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | C3082 | NDC31HJ-151X | C CAPACITOR | 150pF 50V J |
| C2342 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | C3086 | NCB31HK-152X | C CAPACITOR | 1500pF 50V K |
| C2343 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | C3088 | NDC31HJ-100X | C CAPACITOR | 10pF 50V J |
| C3001 | QENC1AM-336Z | BP E CAPACITOR | 33uF 10V M | C3089 | NDC31HJ-100X | C CAPACITOR | 10pF 50V J |
| C3002 | NDC31HJ-151X | C CAPACITOR | 150pF 50V J | C3090 | NDC31HJ-100X | C CAPACITOR | 10pF 50V J |
| C3003 | NDC31HJ-121X | C CAPACITOR | 120pF 50V J | C3099 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K |
| C3004 | NDC31HJ-150X | C CAPACITOR | 15pF 50V J | C3100 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K |
| C3005 | NCF11CZ-475X | C CAPACITOR | 4.7uF 16V Z | C3501 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z |
| | | | | C3502 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J |
| | | | | C3503 | NDC31HJ-121X | C CAPACITOR | 120pF 50V J |
| | | | | C3504 | NDC31HJ-150X | C CAPACITOR | 15pF 50V J |
| | | | | C3506 | NCF11CZ-475X | C CAPACITOR | 4.7uF 16V Z |
| | | | | C3507 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z |
| | | | | C3508 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J |
| | | | | C3509 | NDC31HJ-121X | C CAPACITOR | 120pF 50V J |

| △Ref No. | Part No. | Part Name | Description Local | △Ref No. | Part No. | Part Name | Description Local |
|----------|--------------|----------------|-------------------|----------|--------------|---------------|-------------------|
| C3510 | NDC31HJ-150X | C CAPACITOR | 15pF 50V J | R3039 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J |
| C3512 | NCF11CZ-475X | C CAPACITOR | 4.7uF 16V Z | R3040 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J |
| C3513 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | R3042 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J |
| C3514 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | R3043 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| C3515 | NDC31HJ-121X | C CAPACITOR | 120pF 50V J | R3044 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| C3516 | NDC31HJ-150X | C CAPACITOR | 15pF 50V J | R3045 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J |
| C3518 | NCF11CZ-475X | C CAPACITOR | 4.7uF 16V Z | R3047 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J |
| C3519 | QENC1CM-336Z | BP E CAPACITOR | 33uF 16V M | R3048 | NRSA63J-331X | MG RESISTOR | 330Ω 1/16W J |
| C3520 | QENC1CM-336Z | BP E CAPACITOR | 33uF 16V M | R3049 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J |
| C3521 | QENC1CM-336Z | BP E CAPACITOR | 33uF 16V M | R3050 | NRSA63J-563X | MG RESISTOR | 56kΩ 1/16W J |
| R1202 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | R3051 | NRSA63J-123X | MG RESISTOR | 12kΩ 1/16W J |
| R1203 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | R3052 | NRSA63J-331X | MG RESISTOR | 330Ω 1/16W J |
| R1218 | NRSA63J-822X | MG RESISTOR | 8.2kΩ 1/16W J | R3053 | NRSA63J-123X | MG RESISTOR | 12kΩ 1/16W J |
| R1219 | NRSA63J-331X | MG RESISTOR | 330Ω 1/16W J | R3054 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J |
| R1220 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | R3055 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J |
| R1221 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | R3056 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J |
| R1226 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | R3057 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J |
| R1228 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | R3058 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J |
| R1229 | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J | R3059 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J |
| R1230 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | R3060 | NRSA63J-182X | MG RESISTOR | 1.8kΩ 1/16W J |
| R1231 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | R3061 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R1232 | NRSA63J-562X | MG RESISTOR | 5.6kΩ 1/16W J | R3062 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R1234 | NRSA63J-562X | MG RESISTOR | 5.6kΩ 1/16W J | R3063 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R1236 | NRSA63J-562X | MG RESISTOR | 5.6kΩ 1/16W J | R3064 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R1301 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | R3065 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J |
| R1302 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | R3066 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J |
| R1321 | NRSA63J-151X | MG RESISTOR | 150Ω 1/16W J | R3071 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R1322 | NRSA63J-151X | MG RESISTOR | 150Ω 1/16W J | R3072 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R1323 | NRSA63J-151X | MG RESISTOR | 150Ω 1/16W J | R3073 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R1351 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | R3074 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R1352 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | R3075 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R1353 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | R3076 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R1372 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | R3077 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R1374 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J | R3078 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R1375 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | R3079 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R1376 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | R3080 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R1377 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | R3081 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R1382 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | R3082 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R1384 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J | R3501 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R1385 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | R3502 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J |
| R1386 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | R3503 | NRSA63J-182X | MG RESISTOR | 1.8kΩ 1/16W J |
| R1387 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | R3504 | NRSA63J-181X | MG RESISTOR | 180Ω 1/16W J |
| R1392 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | R3505 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J |
| R1394 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J | R3507 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J |
| R1395 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | R3508 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R1396 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | R3509 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |
| R1397 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | R3511 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R2322 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | R3516 | NRSA63J-680X | MG RESISTOR | 68Ω 1/16W J |
| R2325 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | R3517 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R2328 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | R3518 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J |
| R3001 | NRSA63J-123X | MG RESISTOR | 12kΩ 1/16W J | R3519 | NRSA63J-182X | MG RESISTOR | 1.8kΩ 1/16W J |
| R3002 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | R3520 | NRSA63J-181X | MG RESISTOR | 180Ω 1/16W J |
| R3003 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | R3521 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J |
| R3004 | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J | R3523 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J |
| R3005 | NRSA63J-181X | MG RESISTOR | 180Ω 1/16W J | R3525 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |
| R3006 | NRSA63J-152X | MG RESISTOR | 1.5kΩ 1/16W J | R3532 | NRSA63J-680X | MG RESISTOR | 68Ω 1/16W J |
| R3007 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | R3533 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R3008 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | R3534 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J |
| R3009 | NRSA63D-102X | MG RESISTOR | 1kΩ 1/16W D | R3535 | NRSA63J-182X | MG RESISTOR | 1.8kΩ 1/16W J |
| R3010 | NRSA63J-152X | MG RESISTOR | 1.5kΩ 1/16W J | R3536 | NRSA63J-181X | MG RESISTOR | 180Ω 1/16W J |
| R3011 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | R3537 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J |
| R3012 | NRSA63J-123X | MG RESISTOR | 12kΩ 1/16W J | R3539 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J |
| R3013 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | R3541 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |
| R3014 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | R3548 | NRSA63J-680X | MG RESISTOR | 68Ω 1/16W J |
| R3015 | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J | R3549 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J |
| R3016 | NRSA63J-181X | MG RESISTOR | 180Ω 1/16W J | R3550 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J |
| R3017 | NRSA63J-152X | MG RESISTOR | 1.5kΩ 1/16W J | R3551 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R3018 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | R3552 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J |
| R3019 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | R3553 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J |
| R3020 | NRSA63D-102X | MG RESISTOR | 1kΩ 1/16W D | R3554 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J |
| R3021 | NRSA63J-152X | MG RESISTOR | 1.5kΩ 1/16W J | R3555 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J |
| R3022 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | RA3001 | NRZ0040-103X | NET RESISTOR | 10kΩ 1/16W J x4 |
| R3023 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | RA3002 | NRZ0040-103X | NET RESISTOR | 10kΩ 1/16W J x4 |
| R3024 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | RA3003 | NRZ0040-103X | NET RESISTOR | 10kΩ 1/16W J x4 |
| R3025 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | RA3004 | NRZ0040-103X | NET RESISTOR | 10kΩ 1/16W J x4 |
| R3026 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | L1211 | QQL25CK-100Z | COIL | 10uH K |
| R3027 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J | L1301 | QRN143J-0R0X | C RESISTOR | 0Ω 1/4W J |
| R3028 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J | L1302 | QRN143J-0R0X | C RESISTOR | 0Ω 1/4W J |
| R3029 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J | L3001 | NQL092K-6R8X | P COIL | 6.8uH K |
| R3030 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J | L3002 | NQL092K-6R8X | P COIL | 6.8uH K |
| R3031 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | L3003 | NQR0413-003X | FERRITE BEADS | |
| R3032 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | L3004 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R3033 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | L3005 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J |
| R3035 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | L3006 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J |
| R3036 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | L3007 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J |
| R3037 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | L3501 | NQL092K-6R8X | P COIL | 6.8uH K |

| △Ref No. | Part No. | Part Name | Description Local |
|----------|---------------|-------------|-------------------|
| L3502 | NQL092K-6R8X | P COIL | 6.8uH K |
| L3503 | NQL092K-6R8X | P COIL | 6.8uH K |
| CN100H | QGF0508C1-30W | CONNECTOR | FFC/FPC (1-30) |
| CN100N | QGA1501C2-04V | CONNECTOR | W-B (1-4) |
| CN10A0Q | QGA2001C2-09V | CONNECTOR | W-B (1-9) |
| J2121 | QNN0584-001 | PIN JACK | COMPONENT IN |
| K3001 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J |
| LC3001 | NQR0450-002X | EMI FILTER | 22pF 50V M |
| LC3002 | NQR0450-002X | EMI FILTER | 22pF 50V M |
| LC3003 | NQR0415-005X | EMI FILTER | 0.1uF 25V M |
| LC3004 | NQR0450-004X | EMI FILTER | 100pF 50V M |
| LC3005 | NQR0450-002X | EMI FILTER | 22pF 50V M |
| LC3006 | NQR0450-004X | EMI FILTER | 100pF 50V M |
| LC3007 | NQR0450-002X | EMI FILTER | 22pF 50V M |
| LC3008 | NQR0450-002X | EMI FILTER | 22pF 50V M |
| LC3501 | NQR0450-004X | EMI FILTER | 100pF 50V M |
| LC3502 | NQR0450-004X | EMI FILTER | 100pF 50V M |
| LC3503 | NQR0450-004X | EMI FILTER | 100pF 50V M |
| SL1211 | CSB503F30 | C RESONATOR | |
| X3001 | NAX0570-001X | CRYSTAL | 27.000MHz |

POWER P.W.BOARD ASSY (LCA90149-07F) (SSB-9091A)

| △Ref No. | Part No. | Part Name | Description Local |
|----------|----------------|-----------------|-------------------|
| △IC9211 | MC33262D-X | IC | |
| △IC9501 | STR-F6268S-F3 | IC | |
| △IC9541 | SE015N-LF12 | IC | |
| IC9901 | SI-8033S/F1 | IC | |
| IC9902 | PQ1CG2032FZ | IC | |
| Q9021 | UN2211-X | TRANSISTOR | |
| Q9211 | 2SK2196 | POWER MOS FET | |
| Q9212 | 2SC3928A/QR/-X | TRANSISTOR | |
| Q9213 | IMD3A-W | DIGI TRANSISTOR | |
| Q9215 | 2SC3928A/QR/-X | TRANSISTOR | |
| Q9502 | 2SC3928A/QR/-X | TRANSISTOR | |
| Q9541 | UN2213-X | DIGI TRANSISTOR | |
| Q9901 | 2SC3928A/QR/-X | TRANSISTOR | |
| Q9902 | 2SC3928A/QR/-X | TRANSISTOR | |
| Q9903 | UN2213-X | DIGI TRANSISTOR | |
| Q9904 | 2SC3928A/QR/-X | TRANSISTOR | |
| Q9905 | 2SC3928A/QR/-X | TRANSISTOR | |
| Q9906 | UN2213-X | DIGI TRANSISTOR | |
| D9001 | MA3047/H/-X | Z DIODE | |
| D9021 | MA111-X | SI DIODE | |
| D9111 | S1WB/A/60-4101 | BRIDGE DIODE | |
| △D9201 | D25XB60 | BRIDGE DIODE | |
| D9202 | MA111-X | SI DIODE | |
| D9211 | D5L60 | SI DIODE | |
| D9213 | MA111-X | SI DIODE | |
| D9214 | MA111-X | SI DIODE | |
| D9501 | RD12E/B2/-T5 | Z DIODE | |
| D9502 | RD33E/B/-T5 | Z DIODE | |
| D9503 | RD5.1E/B2/-T5 | Z DIODE | |
| D9504 | SARS01-T2 | SI DIODE | |
| D9505 | SARS01-T2 | SI DIODE | |
| D9506 | D1FL20U-X | SI DIODE | |
| D9507 | PG104RS-T2 | FR DIODE | |
| D9509 | D1FS4-X | SB DIODE | |
| D9510 | D1FS4-X | SB DIODE | |
| D9511 | MA111-X | SI DIODE | |
| D9513 | MA111-X | SI DIODE | |
| D9541 | FME-220A | SB DIODE | |
| D9542 | EU2-T3 | SI DIODE | |
| D9543 | FME-220A | SB DIODE | |
| D9544 | FME-220A | SB DIODE | |
| D9545 | RD16E/B/-T5 | Z DIODE | |
| D9546 | RD16E/B/-T5 | Z DIODE | |
| D9901 | RK44-LFT4 | SB DIODE | |
| D9902 | MA111-X | SI DIODE | |
| D9903 | EC30HA03L-X | SB DIODE | |
| D9904 | MA111-X | SI DIODE | |
| D9905 | PTZ16B-X | Z DIODE | |
| △C9001 | QFZ9075-225 | MPP CAPACITOR | 2.2uF AC275V M |
| △C9002 | QFZ9075-105 | MPP CAPACITOR | 1uF AC275V M |
| △C9011 | QCZ9079-102 | C CAPACITOR | 1000pF AC250V M |
| △C9013 | QCZ9079-102 | C CAPACITOR | 1000pF AC250V M |
| △C9101 | QCZ9082-472Z | C CAPACITOR | 4700pF AC250V M |

| △Ref No. | Part No. | Part Name | Description Local |
|----------|--------------|-----------------|-------------------|
| △C9102 | QCZ9082-472Z | C CAPACITOR | 4700pF AC250V M |
| △C9103 | QCZ9082-472Z | C CAPACITOR | 4700pF AC250V M |
| C9111 | QEHQ2GM-226 | E CAPACITOR | 22uF 400V M |
| C9141 | QTMN1CM-477Z | E CAPACITOR | 470uF 16V M |
| C9142 | QEHR1AM-337Z | E CAPACITOR | 330uF 10V M |
| C9143 | QEHR1CM-107Z | E CAPACITOR | 100uF 16V M |
| △C9197 | QCZ9079-102 | C CAPACITOR | 1000pF AC250V M |
| △C9198 | QCZ9079-222 | C CAPACITOR | 2200pF AC250V M |
| △C9201 | QCZ9082-222Z | C CAPACITOR | 2200pF AC250V M |
| △C9203 | QCZ9082-222Z | C CAPACITOR | 2200pF AC250V M |
| △C9204 | QCZ9082-222Z | C CAPACITOR | 2200pF AC250V M |
| △C9205 | QCZ9082-222Z | C CAPACITOR | 2200pF AC250V M |
| C9211 | QFZ0128-474 | MPP CAPACITOR | 0.47uF DC400V H |
| C9212 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K |
| C9213 | NCB21CK-684X | C CAPACITOR | 0.68uF 16V K |
| C9214 | NDC31HJ-102X | C CAPACITOR | 1000pF 50V J |
| C9215 | QEHR1VM-476Z | E CAPACITOR | 47uF 35V M |
| C9216 | QEZ0650-227 | E CAPACITOR | 220uF 450V M |
| C9218 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K |
| C9501 | NCB31EK-104X | C CAPACITOR | 0.1uF 25V K |
| C9502 | NDC31HJ-221X | C CAPACITOR | 220pF 50V J |
| C9503 | QFP32JK-332 | PP CAPACITOR | 3300pF 630V K |
| C9504 | QFP32JK-332 | PP CAPACITOR | 3300pF 630V K |
| C9505 | QCZ0354-331Z | C CAPACITOR | 330pF 2kV K |
| C9506 | QCZ0354-331Z | C CAPACITOR | 330pF 2kV K |
| C9508 | NDC31HJ-471X | C CAPACITOR | 470pF 50V J |
| C9509 | QEHR1HM-476Z | E CAPACITOR | 47uF 50V M |
| C9510 | QEHR1HM-107Z | E CAPACITOR | 100uF 50V M |
| C9511 | QEHR1HM-475Z | E CAPACITOR | 4.7uF 50V M |
| C9512 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K |
| C9541 | QCZ0354-681Z | C CAPACITOR | 680pF 2kV K |
| C9543 | QECR1EM-687Z | E CAPACITOR | 680uF 25V M |
| C9544 | QECR1EM-687Z | E CAPACITOR | 680uF 25V M |
| C9545 | QEHR2AM-106Z | E CAPACITOR | 10uF 100V M |
| C9546 | QCZ0354-681Z | C CAPACITOR | 680pF 2kV K |
| C9547 | QCZ0354-681Z | C CAPACITOR | 680pF 2kV K |
| C9548 | QECQ1EM-188 | E CAPACITOR | 1800uF 25V M |
| C9549 | QECQ1EM-188 | E CAPACITOR | 1800uF 25V M |
| C9550 | QECQ1EM-188 | E CAPACITOR | 1800uF 25V M |
| C9551 | QECQ1EM-188 | E CAPACITOR | 1800uF 25V M |
| C9552 | QEHR1HM-106Z | E CAPACITOR | 10uF 50V M |
| C9553 | QEHR1HM-107Z | E CAPACITOR | 100uF 50V M |
| C9554 | NCB31HK-104X | C CAPACITOR | 0.1uF 50V K |
| C9901 | NBZ0017-106X | SP E CAPACITOR | 10uF 25V M |
| C9903 | QECR1AM-128Z | E CAPACITOR | 1200uF 10V M |
| C9905 | NBZ0017-106X | SP E CAPACITOR | 10uF 25V M |
| C9906 | QEZ0255-128 | E CAPACITOR | 1200uF 16V M |
| C9908 | NCB31EK-104X | C CAPACITOR | 0.1uF 25V K |
| C9910 | QEHR1HM-476Z | E CAPACITOR | 47uF 50V M |
| C9911 | QEZ0256-128 | E CAPACITOR | 1200uF 10V M |
| C9912 | QECR1CM-477Z | E CAPACITOR | 470uF 16V M |
| △R9001 | QRZ9046-105Z | C RESISTOR | 1MΩ 1/2W K |
| R9003 | QRE121J-473Y | C RESISTOR | 47kΩ 1/2W J |
| R9004 | QRE121J-473Y | C RESISTOR | 47kΩ 1/2W J |
| R9101 | QRZ0216-4R7 | UNF WW RESISTOR | 4.7Ω 7W K |
| R9148 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J |
| △R9199 | QRZ9046-685Z | C RESISTOR | 6.8MΩ 1/2W K |
| R9201 | QRZ0121-200 | UNF WW RESISTOR | 20Ω 5W J |
| R9203 | QRL01EJ-561X | OMF RESISTOR | 560Ω 1W J |
| R9211 | NRS12BJ-474W | MG RESISTOR | 470kΩ 1/2W J |
| R9212 | NRS12BJ-474W | MG RESISTOR | 470kΩ 1/2W J |
| R9213 | NRS12BJ-334W | MG RESISTOR | 330kΩ 1/2W J |
| R9214 | NRSA63J-153X | MG RESISTOR | 15kΩ 1/16W J |
| R9215 | NRSA63J-331X | MG RESISTOR | 330Ω 1/16W J |
| R9216 | NRSA63J-224X | MG RESISTOR | 220kΩ 1/16W J |
| R9217 | NRSA63J-224X | MG RESISTOR | 220kΩ 1/16W J |
| R9218 | NRSA63D-103X | MG RESISTOR | 10kΩ 1/16W D |
| R9219 | NRS12BJ-223W | MG RESISTOR | 22kΩ 1/2W J |
| R9220 | QRM059J-R15 | MP RESISTOR | 0.15Ω 5W J |
| R9221 | QRM059J-R27 | MP RESISTOR | 0.27Ω 5W J |
| R9222 | NRS12BJ-334W | MG RESISTOR | 330kΩ 1/2W J |
| R9223 | NRS12BJ-334W | MG RESISTOR | 330kΩ 1/2W J |
| R9224 | NRS12BJ-394W | MG RESISTOR | 390kΩ 1/2W J |
| R9225 | NRS12BJ-334W | MG RESISTOR | 330kΩ 1/2W J |
| R9226 | NRS12BJ-334W | MG RESISTOR | 330kΩ 1/2W J |
| R9227 | NRS12BJ-394W | MG RESISTOR | 390kΩ 1/2W J |
| R9228 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J |
| R9233 | NRS12BJ-474W | MG RESISTOR | 470kΩ 1/2W J |
| R9236 | NRS12BJ-474W | MG RESISTOR | 470kΩ 1/2W J |
| R9237 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J |
| R9501 | QRL03EJ-333X | OMF RESISTOR | 33kΩ 3W J |
| R9502 | QRL03EJ-333X | OMF RESISTOR | 33kΩ 3W J |
| R9503 | NRS12BJ-224W | MG RESISTOR | 220kΩ 1/2W J |
| R9504 | NRS12BJ-224W | MG RESISTOR | 220kΩ 1/2W J |
| R9505 | QRL03EJ-220X | OMF RESISTOR | 22Ω 3W J |
| R9506 | QRL03EJ-220X | OMF RESISTOR | 22Ω 3W J |

| △Ref No. | Part No. | Part Name | Description Local |
|----------|-----------------|-----------------|-------------------|
| R9507 | QRM059J-R15 | MP RESISTOR | 0.15Ω 5W J |
| R9508 | QRT02EJ-1R5X | MF RESISTOR | 1.5Ω 2W J |
| △R9509 | QRZ9009-1R5 | FUSI RESISTOR | 1.5Ω 1/2W J |
| R9512 | QRK126J-152X | UNF C RESISTOR | 1.5kΩ 1/2W J |
| R9513 | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J |
| R9514 | NRSA63J-154X | MG RESISTOR | 150kΩ 1/16W J |
| R9515 | QRK126J-221X | UNF C RESISTOR | 220Ω 1/2W J |
| R9516 | NRS12BJ-332W | MG RESISTOR | 3.3kΩ 1/2W J |
| R9517 | NRSA63J-224X | MG RESISTOR | 220kΩ 1/16W J |
| R9518 | NRS12BJ-100W | MG RESISTOR | 10Ω 1/2W J |
| R9519 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R9541 | QRL02EJ-152X | OMF RESISTOR | 1.5kΩ 2W J |
| R9542 | NRSA63J-152X | MG RESISTOR | 1.5kΩ 1/16W J |
| R9544 | NRSA63J-181X | MG RESISTOR | 180Ω 1/16W J |
| R9545 | QRL02EJ-331X | OMF RESISTOR | 330Ω 2W J |
| R9546 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |
| R9626 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J |
| R9902 | NRS12BJ-220W | MG RESISTOR | 22Ω 1/2W J |
| R9903 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J |
| R9905 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J |
| R9906 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J |
| R9907 | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J |
| R9908 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |
| R9909 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J |
| R9911 | NRSA63J-224X | MG RESISTOR | 220kΩ 1/16W J |
| R9912 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R9915 | NRSA63D-102X | MG RESISTOR | 1kΩ 1/16W D |
| R9916 | NRSA63D-103X | MG RESISTOR | 10kΩ 1/16W D |
| R9918 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |
| R9919 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J |
| R9920 | NRSA63J-224X | MG RESISTOR | 220kΩ 1/16W J |
| R9921 | NRSA63J-122X | MG RESISTOR | 1.2kΩ 1/16W J |
| R9922 | NRSA63J-123X | MG RESISTOR | 12kΩ 1/16W J |
| R9923 | NRSA63J-182X | MG RESISTOR | 1.8kΩ 1/16W J |
| L9141 | NQL52EN-4R7X | COIL | 4.7uH N |
| L9201 | QQR1399-001 | CHOKE COIL | |
| L9541 | NQL52EM-220X | COIL | 22uH M |
| L9902 | QQR1401-001 | CHOKE COIL | |
| L9904 | NQL63EM-470X | COIL | 47uH M |
| L9905 | NQL80CL-100X | COIL | 10uH L |
| △T9121 | QAL0515-001 | POWER TRANSF | |
| △T9541 | QQS0222-001 | SW TRANSF | |
| CN0001 | QGB2501J1-13 | CONNECTOR | B-B (1-13) |
| CN000A | QGA2001C2-13V | CONNECTOR | W-B (1-13) |
| CN000B | QGA1501C2-13V | CONNECTOR | W-B (1-13) |
| CN000F | QGA2001C2-04V | CONNECTOR | W-B (1-4) |
| CN000G | QGA1501C2-10V | CONNECTOR | W-B (1-10) |
| CN000P | QGA1201C2-15X | CONNECTOR | W-B (1-15) |
| CN000Q | QGA1201C2-15X | CONNECTOR | W-B (1-15) |
| CN000Y | QGA2001C2-02V | CONNECTOR | W-B (1-2) |
| CN000Z | QGA2001C2-02V | CONNECTOR | W-B (1-2) |
| CN00E1 | CE41507-001P | LV CONNECTOR | |
| CN00PW | QGA7901C1-02 | CONNECTOR | W-B (1-2) |
| △CP9121 | QMFZ043-2R0Z-J1 | FUSE | 2A AC250V |
| △CP9211 | QMFZ043-5R0Z-J1 | FUSE | 5A AC250V |
| △F9001 | QMF51D2-6R3-J1 | FUSE | 6.3A AC250V |
| H9211 | LC32378-001A | HEAT SINK/AL-F/ | |
| H9541 | LC32377-001A | HEAT SINK/AL-F/ | |
| H9901 | CM42862-A0A | HEAT SINK ASSY | |
| H9902 | LC31334-002A | HEAT SINK/AL-F/ | |
| K9001 | QRN143J-0R0X | C RESISTOR | 0Ω 1/4W J |
| K9501 | QRN143J-0R0X | C RESISTOR | 0Ω 1/4W J |
| K9502 | QRN143J-0R0X | C RESISTOR | 0Ω 1/4W J |
| K9503 | QRN143J-0R0X | C RESISTOR | 0Ω 1/4W J |
| K9504 | QQR0621-002Z | FERRITE BEADS | |
| K9505 | QQR0621-002Z | FERRITE BEADS | |
| K9541 | QRN143J-0R0X | C RESISTOR | 0Ω 1/4W J |
| K9542 | QRN143J-0R0X | C RESISTOR | 0Ω 1/4W J |
| K9543 | QRN143J-0R0X | C RESISTOR | 0Ω 1/4W J |
| K9544 | QRN143J-0R0X | C RESISTOR | 0Ω 1/4W J |
| K9545 | QRN143J-0R0X | C RESISTOR | 0Ω 1/4W J |
| K9901 | NQR0413-003X | FERRITE BEADS | |
| △LF9001 | QQR1281-004 | LINE FILTER | |
| △LF9002 | QQR1281-004 | LINE FILTER | |
| △LF9003 | QQR1376-001 | LINE FILTER | |
| △PC9001 | PC123Y22FZ | PHOTO COUPLER | |
| △PC9541 | PC123Y22FZ | PHOTO COUPLER | |
| △PC9542 | PC123Y22FZ | PHOTO COUPLER | |
| △RY9021 | QSK0119-001 | RELAY | |
| △RY9201 | QSK0117-001 | RELAY | |
| △VA9001 | ERZV10V621CS | ZNR | |

REGULATOR P.W.BOARD ASSY (LCA90150-07D) (SSB-9191A)

| △Ref No. | Part No. | Part Name | Description Local |
|----------|----------------|-----------------|-------------------|
| IC9801 | SI-8090JD-W | IC | |
| IC9802 | SI-8050JD-W | IC | |
| IC9803 | PQ1CY1032Z-W | IC | |
| Q9801 | 2SC3928A/QR/-X | TRANSISTOR | |
| Q9802 | 2SC3928A/QR/-X | TRANSISTOR | |
| Q9803 | 2SC3928A/QR/-X | TRANSISTOR | |
| Q9804 | 2SC3928A/QR/-X | TRANSISTOR | |
| Q9805 | UN2213-X | DIGI TRANSISTOR | |
| D9801 | EC30HA03L-X | SB DIODE | |
| D9802 | MA111-X | SI DIODE | |
| D9803 | EC30HA03L-X | SB DIODE | |
| D9804 | MA111-X | SI DIODE | |
| D9805 | MA3030/H/-X | Z DIODE | |
| D9806 | EC30HA03L-X | SB DIODE | |
| D9807 | PTZ16B-X | Z DIODE | |
| D9808 | MA111-X | SI DIODE | |
| D9809 | PTZ11B-X | Z DIODE | |
| D9810 | PTZ6.8B-X | Z DIODE | |
| C9801 | NBZ0017-106X | SP E CAPACITOR | 10uF 25V M |
| C9803 | NBZ0010-396X | SP E CAPACITOR | 39uF 16V M |
| C9805 | NBZ0017-106X | SP E CAPACITOR | 10uF 25V M |
| C9807 | NBZ0010-396X | SP E CAPACITOR | 39uF 16V M |
| C9809 | NEH91HM-105X | E CAPACITOR | 1uF 50V M |
| C9810 | NBZ0017-106X | SP E CAPACITOR | 10uF 25V M |
| C9811 | NBZ0010-396X | SP E CAPACITOR | 39uF 16V M |
| C9813 | NCB31HK-473X | C CAPACITOR | 0.047uF 50V K |
| C9814 | NEH91CM-476X | E CAPACITOR | 47uF 16V M |
| C9815 | NEH91CM-476X | E CAPACITOR | 47uF 16V M |
| C9816 | NEH90JM-107X | E CAPACITOR | 100uF 6.3V M |
| C9817 | NEH91CM-476X | E CAPACITOR | 47uF 16V M |
| R9801 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R9802 | NRS12BJ-6R8W | MG RESISTOR | 6.8Ω 1/2W J |
| R9803 | NRSA63D-152X | MG RESISTOR | 1.5kΩ 1/16W D |
| R9804 | NRSA63D-152X | MG RESISTOR | 1.5kΩ 1/16W D |
| R9807 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |
| R9808 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J |
| R9809 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J |
| R9810 | NRSA63J-122X | MG RESISTOR | 1.2kΩ 1/16W J |
| R9811 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R9812 | NRS12BJ-220W | MG RESISTOR | 22Ω 1/2W J |
| R9813 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J |
| R9815 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J |
| R9816 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J |
| R9817 | NRSA63J-182X | MG RESISTOR | 1.8kΩ 1/16W J |
| R9818 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |
| R9819 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J |
| R9820 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J |
| R9821 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R9823 | NRSA63D-182X | MG RESISTOR | 1.8kΩ 1/16W D |
| R9824 | NRSA63D-153X | MG RESISTOR | 15kΩ 1/16W D |
| R9825 | NRSA63D-473X | MG RESISTOR | 47kΩ 1/16W D |
| R9826 | NRSA63J-123X | MG RESISTOR | 12kΩ 1/16W J |
| R9827 | NRSA63J-122X | MG RESISTOR | 1.2kΩ 1/16W J |
| R9828 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |
| R9829 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J |
| R9831 | NRSA63J-224X | MG RESISTOR | 220kΩ 1/16W J |
| L9802 | NQL63EM-101X | COIL | 100uH M |
| L9804 | NQL63EM-101X | COIL | 100uH M |
| L9806 | NQL63EM-101X | COIL | 100uH M |
| L9807 | NQL80CL-100X | COIL | 10uH L |
| CN1001 | QGB2501K2-13 | CONNECTOR | B-B (1-13) |
| K9801 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J |
| K9802 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J |
| K9803 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J |

RECEIVER P.W.BOARD ASSY (LCA90182-01B) (SSB-0J086A)

| △Ref No. | Part No. | Part Name | Description Local |
|----------|----------------|-----------------|-------------------|
| IC1101 | M62320FP-X | IC | |
| IC1102 | CXA2134Q-X | IC | |
| IC1501 | CXA2069Q | IC | |
| IC6101 | AN77L12-T | IC | |
| IC6401 | TA8119P | IC | |
| IC6501 | NJW1137M-W | IC | |
| IC6531 | RC4558D-X | IC | |
| IC6551 | RC4558D-X | IC | |
| IC6641 | TA2024ASE-X | IC | |
| IC6701 | M62320FP-X | IC | |
| Q1101 | 2SC3928A/QR/-X | TRANSISTOR | |
| Q1102 | 2SA1530A/QR/-X | SI TRANSISTOR | |
| Q1103 | 2SC3928A/QR/-X | TRANSISTOR | |
| Q2251 | KTA1267/YG/-T | TRANSISTOR | |
| Q2252 | KTA1267/YG/-T | TRANSISTOR | |
| Q2253 | KTA1267/YG/-T | TRANSISTOR | |
| Q2254 | UN2226-X | DIGI TRANSISTOR | |
| Q2255 | UN2226-X | DIGI TRANSISTOR | |
| Q2256 | UN2110-X | DIGI TRANSISTOR | |
| Q2260 | 2SA1530A/QR/-X | SI TRANSISTOR | |
| Q6401 | UN2110-X | DIGI TRANSISTOR | |
| Q6402 | UN2226-X | DIGI TRANSISTOR | |
| Q6504 | 2SC3928A/QR/-X | TRANSISTOR | |
| Q6505 | 2SC3928A/QR/-X | TRANSISTOR | |
| Q6506 | 2SA1530A/QR/-X | SI TRANSISTOR | |
| Q6551 | 2SC3928A/QR/-X | TRANSISTOR | |
| Q6552 | 2SC3928A/QR/-X | TRANSISTOR | |
| Q6581 | 2SC3928A/QR/-X | TRANSISTOR | |
| Q6582 | 2SA1530A/QR/-X | SI TRANSISTOR | |
| Q6591 | DTC323TK-X | DIGI TRANSISTOR | |
| Q6592 | DTC323TK-X | DIGI TRANSISTOR | |
| Q6593 | 2SA1530A/QR/-X | SI TRANSISTOR | |
| Q6601 | 2SC3928A/QR/-X | TRANSISTOR | |
| Q6702 | 2SA1530A/QR/-X | SI TRANSISTOR | |
| Q6703 | 2SC3928A/QR/-X | TRANSISTOR | |
| Q6704 | 2SC3928A/QR/-X | TRANSISTOR | |
| Q6705 | 2SA1530A/QR/-X | SI TRANSISTOR | |
| D2101 | MA8100/M/-X | Z DIODE | |
| D2121 | MA8100/M/-X | Z DIODE | |
| D2201 | MA8100/M/-X | Z DIODE | |
| D2204 | MA8100/M/-X | Z DIODE | |
| D2205 | MA8100/M/-X | Z DIODE | |
| D2206 | MA8100/M/-X | Z DIODE | |
| D2209 | MA8100/M/-X | Z DIODE | |
| D2210 | MA8100/M/-X | Z DIODE | |
| D2212 | MA8100/M/-X | Z DIODE | |
| D2213 | MA8100/M/-X | Z DIODE | |
| D2215 | MA8100/M/-X | Z DIODE | |
| D2216 | MA8100/M/-X | Z DIODE | |
| D2217 | MA8100/M/-X | Z DIODE | |
| D2218 | MA8100/M/-X | Z DIODE | |
| D2219 | MA8100/M/-X | Z DIODE | |
| D2251 | MA8100/M/-X | Z DIODE | |
| D2252 | MA8100/M/-X | Z DIODE | |
| D2253 | MA8100/M/-X | Z DIODE | |
| D2258 | MA111-X | SI DIODE | |
| D2259 | MA111-X | SI DIODE | |
| D6401 | 1SR35-400A-T2 | SI DIODE | |
| D6541 | MA8062/M/-X | Z DIODE | |
| D6561 | MA111-X | SI DIODE | |
| D6562 | MA111-X | SI DIODE | |
| D6571 | MA111-X | SI DIODE | |
| D6572 | MA111-X | SI DIODE | |
| D6573 | MA111-X | SI DIODE | |
| D6574 | MA111-X | SI DIODE | |
| D6581 | MA111-X | SI DIODE | |
| D6582 | MA111-X | SI DIODE | |
| D6583 | MA111-X | SI DIODE | |
| D6584 | MA111-X | SI DIODE | |
| D6585 | MA111-X | SI DIODE | |
| D6641 | D1FS4-X | SB DIODE | |
| D6642 | D1FS4-X | SB DIODE | |
| D6643 | D1FS4-X | SB DIODE | |
| D6644 | D1FS4-X | SB DIODE | |
| D6701 | MA111-X | SI DIODE | |
| D6702 | MA111-X | SI DIODE | |
| C1102 | QETN1CM-477Z | E CAPACITOR | 470uF 16V M |
| C1103 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M |
| C1109 | NCB11CK-225X | C CAPACITOR | 2.2uF 16V K |
| C1110 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z |

| △Ref No. | Part No. | Part Name | Description Local |
|----------|--------------|----------------|-------------------|
| C1118 | NDC31HJ-221X | C CAPACITOR | 220pF 50V J |
| C1119 | NDC31HJ-221X | C CAPACITOR | 220pF 50V J |
| C1141 | QENC1HM-475Z | BP E CAPACITOR | 4.7uF 50V M |
| C1142 | NCB31EK-104X | C CAPACITOR | 0.1uF 25V K |
| C1143 | QENC1HM-475Z | BP E CAPACITOR | 4.7uF 50V M |
| C1144 | NCB31HK-562X | C CAPACITOR | 5600pF 50V K |
| C1145 | NCB31HK-123X | C CAPACITOR | 0.012uF 50V K |
| C1146 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M |
| C1147 | QETN1HM-475Z | E CAPACITOR | 4.7uF 50V M |
| C1148 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M |
| C1149 | QETN1HM-475Z | E CAPACITOR | 4.7uF 50V M |
| C1150 | QETN1CM-107Z | E CAPACITOR | 100uF 16V M |
| C1151 | QENC1HM-475Z | BP E CAPACITOR | 4.7uF 50V M |
| C1152 | QETN1HM-475Z | E CAPACITOR | 4.7uF 50V M |
| C1153 | QENC1HM-475Z | BP E CAPACITOR | 4.7uF 50V M |
| C1154 | NCB31HK-272X | C CAPACITOR | 2700pF 50V K |
| C1155 | NCB31HK-473X | C CAPACITOR | 0.047uF 50V K |
| C1156 | QETN1HM-335Z | E CAPACITOR | 3.3uF 50V M |
| C1157 | QENC1HM-475Z | BP E CAPACITOR | 4.7uF 50V M |
| C1158 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M |
| C1159 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M |
| C1160 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z |
| C1161 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z |
| C1162 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z |
| C1163 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z |
| C1164 | NCB31HK-223X | C CAPACITOR | 0.022uF 50V K |
| C1165 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K |
| C1166 | QENC1HM-475Z | BP E CAPACITOR | 4.7uF 50V M |
| C1167 | NCB31EK-104X | C CAPACITOR | 0.1uF 25V K |
| C1168 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K |
| C1170 | NCB11CK-225X | C CAPACITOR | 2.2uF 16V K |
| C1171 | NCB11CK-225X | C CAPACITOR | 2.2uF 16V K |
| C1505 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K |
| C1506 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K |
| C1507 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K |
| C1508 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K |
| C1510 | QENC1CM-106Z | BP E CAPACITOR | 10uF 16V M |
| C1522 | QENC1HM-475Z | BP E CAPACITOR | 4.7uF 50V M |
| C1532 | QETN1HM-226Z | E CAPACITOR | 22uF 50V M |
| C1535 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K |
| C1536 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K |
| C1537 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K |
| C1538 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K |
| C1539 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K |
| C1540 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K |
| C1541 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K |
| C1591 | QETN1CM-477Z | E CAPACITOR | 470uF 16V M |
| C1593 | QETN0JM-108Z | E CAPACITOR | 1000uF 6.3V M |
| C2102 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K |
| C2103 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M |
| C2104 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M |
| C2105 | NCB11CK-225X | C CAPACITOR | 2.2uF 16V K |
| C2106 | NCB11CK-225X | C CAPACITOR | 2.2uF 16V K |
| C2123 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K |
| C2124 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M |
| C2125 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M |
| C2127 | NCB11CK-225X | C CAPACITOR | 2.2uF 16V K |
| C2128 | NCB11CK-225X | C CAPACITOR | 2.2uF 16V K |
| C2144 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M |
| C2145 | NCB11CK-225X | C CAPACITOR | 2.2uF 16V K |
| C2146 | NCB11CK-225X | C CAPACITOR | 2.2uF 16V K |
| C2251 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M |
| C2252 | NCB11CK-225X | C CAPACITOR | 2.2uF 16V K |
| C2253 | QETN1AM-108Z | E CAPACITOR | 1000uF 10V M |
| C2254 | NCB11CK-225X | C CAPACITOR | 2.2uF 16V K |
| C2255 | NCB11CK-225X | C CAPACITOR | 2.2uF 16V K |
| C2256 | NCB21CK-105X | C CAPACITOR | 1uF 16V K |
| C2257 | NCB11CK-225X | C CAPACITOR | 2.2uF 16V K |
| C2261 | NCB11CK-225X | C CAPACITOR | 2.2uF 16V K |
| C2262 | QETN1AM-108Z | E CAPACITOR | 1000uF 10V M |
| C2263 | QETN1EM-476Z | E CAPACITOR | 47uF 25V M |
| C6101 | QETN1EM-476Z | E CAPACITOR | 47uF 25V M |
| C6102 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z |
| C6103 | QETN1EM-476Z | E CAPACITOR | 47uF 25V M |
| C6104 | NCB31HK-102X | C CAPACITOR | 1000pF 50V K |
| C6401 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M |
| C6402 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M |
| C6403 | QETN1HM-475Z | E CAPACITOR | 4.7uF 50V M |
| C6404 | QETN1HM-475Z | E CAPACITOR | 4.7uF 50V M |
| C6405 | QETN1AM-227Z | E CAPACITOR | 220uF 10V M |
| C6406 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K |
| C6407 | QETN1AM-227Z | E CAPACITOR | 220uF 10V M |
| C6408 | QETN1AM-227Z | E CAPACITOR | 220uF 10V M |
| C6409 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M |
| C6410 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M |
| C6503 | QETN1HM-475Z | E CAPACITOR | 4.7uF 50V M |
| C6504 | QETN1HM-475Z | E CAPACITOR | 4.7uF 50V M |

| △Ref No. | Part No. | Part Name | Description Local | △Ref No. | Part No. | Part Name | Description Local |
|----------|--------------|-------------|-------------------|----------|--------------|-------------|-------------------|
| C6505 | NCB31HK-332X | C CAPACITOR | 3300pF 50V K | R1141 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J |
| C6506 | NCB31HK-332X | C CAPACITOR | 3300pF 50V K | R1144 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J |
| C6507 | NCB31HK-333X | C CAPACITOR | 0.033uF 50V K | R1145 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J |
| C6508 | NCB31HK-333X | C CAPACITOR | 0.033uF 50V K | R1146 | NRSA63J-105X | MG RESISTOR | 1MΩ 1/16W J |
| C6509 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K | R1147 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J |
| C6510 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K | R1148 | NRSA63J-123X | MG RESISTOR | 12kΩ 1/16W J |
| C6511 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | R1149 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J |
| C6512 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | R1150 | NRSA63F-623X | MG RESISTOR | 62kΩ 1/16W F |
| C6513 | QETN1HM-225Z | E CAPACITOR | 2.2uF 50V M | R1152 | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J |
| C6514 | QETN1HM-225Z | E CAPACITOR | 2.2uF 50V M | R1154 | NRSA63J-302X | MG RESISTOR | 3kΩ 1/16W J |
| C6515 | QETN1EM-476Z | E CAPACITOR | 47uF 25V M | R1155 | NRSA63J-392X | MG RESISTOR | 3.9kΩ 1/16W J |
| C6516 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | R1501 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J |
| C6517 | QETN1HM-475Z | E CAPACITOR | 4.7uF 50V M | R1502 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J |
| C6518 | QETN1HM-475Z | E CAPACITOR | 4.7uF 50V M | R1503 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| C6519 | QETN1HM-475Z | E CAPACITOR | 4.7uF 50V M | R1504 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| C6520 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | R1505 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| C6521 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | R1506 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| C6522 | QETN1HM-475Z | E CAPACITOR | 4.7uF 50V M | R1511 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J |
| C6523 | QETN1HM-475Z | E CAPACITOR | 4.7uF 50V M | R1514 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J |
| C6531 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | R1515 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J |
| C6532 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | R1516 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J |
| C6533 | QETN1EM-476Z | E CAPACITOR | 47uF 25V M | R1517 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J |
| C6534 | NDC31HJ-100X | C CAPACITOR | 10pF 50V J | R1518 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J |
| C6535 | NDC31HJ-100X | C CAPACITOR | 10pF 50V J | R1519 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J |
| C6541 | QETN1EM-476Z | E CAPACITOR | 47uF 25V M | R1520 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| C6551 | NCB31CK-683X | C CAPACITOR | 0.068uF 16V K | R1521 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J |
| C6552 | NCB31CK-683X | C CAPACITOR | 0.068uF 16V K | R1522 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J |
| C6553 | NCB31CK-683X | C CAPACITOR | 0.068uF 16V K | R1523 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J |
| C6554 | NCB31CK-683X | C CAPACITOR | 0.068uF 16V K | R1524 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J |
| C6555 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | R1525 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J |
| C6556 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | R1526 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J |
| C6557 | QETN1EM-476Z | E CAPACITOR | 47uF 25V M | R1527 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J |
| C6561 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | R1528 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J |
| C6563 | QETN1HM-225Z | E CAPACITOR | 2.2uF 50V M | R1529 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J |
| C6571 | NCB11EK-105X | C CAPACITOR | 1uF 25V K | R1530 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J |
| C6572 | NCB11EK-105X | C CAPACITOR | 1uF 25V K | R1533 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J |
| C6573 | NCB11EK-105X | C CAPACITOR | 1uF 25V K | R1534 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J |
| C6574 | NCB11EK-105X | C CAPACITOR | 1uF 25V K | R1536 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J |
| C6575 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | R1551 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| C6576 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | R1552 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| C6577 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | R1553 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| C6578 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | R1555 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| C6581 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | R1557 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| C6582 | QETN1EM-476Z | E CAPACITOR | 47uF 25V M | R1574 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J |
| C6583 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | R2102 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J |
| C6591 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | R2103 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J |
| C6592 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | R2104 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J |
| C6593 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | R2105 | NRSA63J-224X | MG RESISTOR | 220kΩ 1/16W J |
| C6602 | QETN1EM-227Z | E CAPACITOR | 220uF 25V M | R2106 | NRSA63J-224X | MG RESISTOR | 220kΩ 1/16W J |
| C6603 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | R2122 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J |
| C6604 | QETN1EM-227Z | E CAPACITOR | 220uF 25V M | R2123 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J |
| C6605 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | R2125 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J |
| C6606 | NCB11EK-105X | C CAPACITOR | 1uF 25V K | R2126 | NRSA63J-224X | MG RESISTOR | 220kΩ 1/16W J |
| C6607 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | R2127 | NRSA63J-224X | MG RESISTOR | 220kΩ 1/16W J |
| C6608 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | R2144 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J |
| C6610 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | R2145 | NRSA63J-224X | MG RESISTOR | 220kΩ 1/16W J |
| C6611 | NCB11EK-105X | C CAPACITOR | 1uF 25V K | R2146 | NRSA63J-224X | MG RESISTOR | 220kΩ 1/16W J |
| C6612 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | R2251 | NRSA63J-680X | MG RESISTOR | 68Ω 1/16W J |
| C6613 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | R2252 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |
| C6614 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | R2253 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |
| C6621 | NCB11EK-105X | C CAPACITOR | 1uF 25V K | R2254 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J |
| C6622 | NCB11EK-105X | C CAPACITOR | 1uF 25V K | R2255 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J |
| C6623 | NDC31HJ-121X | C CAPACITOR | 120pF 50V J | R2259 | NRSA63J-151X | MG RESISTOR | 150Ω 1/16W J |
| C6624 | NDC31HJ-121X | C CAPACITOR | 120pF 50V J | R2261 | NRSA63J-151X | MG RESISTOR | 150Ω 1/16W J |
| C6641 | NCB21EK-224X | C CAPACITOR | 0.22uF 25V K | R2262 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J |
| C6642 | NCB21EK-224X | C CAPACITOR | 0.22uF 25V K | R2263 | NRSA63J-680X | MG RESISTOR | 68Ω 1/16W J |
| C6643 | NCB21EK-224X | C CAPACITOR | 0.22uF 25V K | R2264 | NRSA63J-391X | MG RESISTOR | 390Ω 1/16W J |
| C6644 | NCB21EK-224X | C CAPACITOR | 0.22uF 25V K | R2265 | NRSA63J-391X | MG RESISTOR | 390Ω 1/16W J |
| C6645 | NCB31HK-104X | C CAPACITOR | 0.1uF 50V K | R2268 | NRSA63J-680X | MG RESISTOR | 68Ω 1/16W J |
| C6646 | NCB31HK-104X | C CAPACITOR | 0.1uF 50V K | R2269 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J |
| C6647 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | R2270 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J |
| C6648 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | R2273 | NRSA63J-470X | MG RESISTOR | 47Ω 1/16W J |
| C6701 | NCB11CK-225X | C CAPACITOR | 2.2uF 16V K | R2274 | NRSA63J-470X | MG RESISTOR | 47Ω 1/16W J |
| C6702 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | R2275 | NRSA63J-470X | MG RESISTOR | 47Ω 1/16W J |
| C6704 | NCB11EK-105X | C CAPACITOR | 1uF 25V K | R2276 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J |
| C6705 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | R2277 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J |
| R1102 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | R2278 | NRSA63J-393X | MG RESISTOR | 39kΩ 1/16W J |
| R1103 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | R2281 | NRSA63J-470X | MG RESISTOR | 47Ω 1/16W J |
| R1107 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | R2282 | NRSA63J-470X | MG RESISTOR | 47Ω 1/16W J |
| R1111 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | R2283 | NRSA63J-470X | MG RESISTOR | 47Ω 1/16W J |
| R1112 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | R2284 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J |
| R1120 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | R2286 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J |
| R1126 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | R2288 | NRSA63J-563X | MG RESISTOR | 56kΩ 1/16W J |
| R1131 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | R6101 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R1132 | NRSA63J-273X | MG RESISTOR | 27kΩ 1/16W J | R6102 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R1133 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | R6103 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| | | | | R6104 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |

| △Ref No. | Part No. | Part Name | Description Local |
|----------|--------------|----------------|-------------------|
| R6105 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R6106 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R6107 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R6108 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R6401 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J |
| R6402 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J |
| R6403 | NRSA63J-822X | MG RESISTOR | 8.2kΩ 1/16W J |
| R6404 | NRSA63J-822X | MG RESISTOR | 8.2kΩ 1/16W J |
| R6406 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J |
| R6407 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J |
| R6408 | NRSA63J-822X | MG RESISTOR | 8.2kΩ 1/16W J |
| R6409 | NRSA63J-153X | MG RESISTOR | 15kΩ 1/16W J |
| R6508 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |
| R6509 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |
| R6510 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |
| R6511 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |
| R6512 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J |
| R6513 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J |
| R6514 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J |
| R6515 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J |
| R6517 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |
| R6518 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J |
| R6531 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J |
| R6532 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J |
| R6533 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J |
| R6534 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J |
| R6535 | NRSA63J-153X | MG RESISTOR | 15kΩ 1/16W J |
| R6536 | NRSA63J-153X | MG RESISTOR | 15kΩ 1/16W J |
| R6541 | NRSA63J-562X | MG RESISTOR | 5.6kΩ 1/16W J |
| R6551 | NRSA63J-184X | MG RESISTOR | 180kΩ 1/16W J |
| R6552 | NRSA63J-184X | MG RESISTOR | 180kΩ 1/16W J |
| R6553 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J |
| R6554 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J |
| R6555 | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J |
| R6556 | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J |
| R6557 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J |
| R6558 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J |
| R6559 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J |
| R6560 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J |
| R6561 | NRSA63J-124X | MG RESISTOR | 120kΩ 1/16W J |
| R6562 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R6563 | NRSA63J-224X | MG RESISTOR | 220kΩ 1/16W J |
| R6564 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R6565 | NRSA63J-823X | MG RESISTOR | 82kΩ 1/16W J |
| R6571 | NRSA63J-183X | MG RESISTOR | 18kΩ 1/16W J |
| R6572 | NRSA63J-183X | MG RESISTOR | 18kΩ 1/16W J |
| R6573 | NRSA63J-183X | MG RESISTOR | 18kΩ 1/16W J |
| R6574 | NRSA63J-183X | MG RESISTOR | 18kΩ 1/16W J |
| R6575 | NRSA63J-822X | MG RESISTOR | 8.2kΩ 1/16W J |
| R6576 | NRSA63J-822X | MG RESISTOR | 8.2kΩ 1/16W J |
| R6577 | NRSA63J-822X | MG RESISTOR | 8.2kΩ 1/16W J |
| R6578 | NRSA63J-822X | MG RESISTOR | 8.2kΩ 1/16W J |
| R6579 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R6581 | NRSA63J-563X | MG RESISTOR | 56kΩ 1/16W J |
| R6582 | NRSA63J-563X | MG RESISTOR | 56kΩ 1/16W J |
| R6583 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J |
| R6584 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J |
| R6585 | NRSA63J-563X | MG RESISTOR | 56kΩ 1/16W J |
| R6586 | NRSA63J-153X | MG RESISTOR | 15kΩ 1/16W J |
| R6587 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R6588 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R6591 | NRSA63J-563X | MG RESISTOR | 56kΩ 1/16W J |
| R6592 | NRSA63J-563X | MG RESISTOR | 56kΩ 1/16W J |
| R6593 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J |
| R6594 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J |
| R6597 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J |
| R6601 | NRSA63D-822X | MG RESISTOR | 8.2kΩ 1/16W D |
| R6604 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J |
| R6606 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J |
| R6621 | NRSA63J-183X | MG RESISTOR | 18kΩ 1/16W J |
| R6622 | NRSA63J-183X | MG RESISTOR | 18kΩ 1/16W J |
| R6623 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J |
| R6624 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J |
| R6641 | QRK126J-100X | UNF C RESISTOR | 10Ω 1/2W J |
| R6642 | QRK126J-100X | UNF C RESISTOR | 10Ω 1/2W J |
| R6701 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J |
| R6702 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J |
| R6703 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J |
| R6704 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |
| R6705 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J |
| R6706 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J |
| R6708 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J |
| R6709 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J |
| R6710 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J |
| R6723 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J |
| R6724 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J |
| R6725 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J |

| △Ref No. | Part No. | Part Name | Description Local |
|----------|---------------|----------------|-------------------|
| R6727 | NRSA63J-124X | MG RESISTOR | 120kΩ 1/16W J |
| R6728 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J |
| R6729 | NRSA63J-563X | MG RESISTOR | 56kΩ 1/16W J |
| R6730 | NRSA63J-563X | MG RESISTOR | 56kΩ 1/16W J |
| R6731 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J |
| R6732 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J |
| R6733 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J |
| R6734 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J |
| R6735 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J |
| L1102 | QRN143J-0R0X | C RESISTOR | 0Ω 1/4W J |
| L1591 | QQL26AK-330Z | COIL | 33uH K |
| L1593 | QQL26AK-220Z | COIL | 22uH K |
| L6641 | QQL28AM-100 | COIL | 10uH M |
| L6642 | QQL28AM-100 | COIL | 10uH M |
| L6643 | QQL28AM-100 | COIL | 10uH M |
| L6644 | QQL28AM-100 | COIL | 10uH M |
| CN000F | QGA2001C2-04V | CONNECTOR | W-B (1-4) |
| CN000G | QGA1501C2-10V | CONNECTOR | W-B (1-10) |
| CN000J | QGA1501C2-11V | CONNECTOR | W-B (1-11) |
| CN000K | QGA1501C2-07V | CONNECTOR | W-B (1-7) |
| CN000N | QGA1501C2-04V | CONNECTOR | W-B (1-4) |
| CN000S | QGA2501C5-06Z | CONNECTOR | W-B (1-6) |
| CN000U | QGA1501C2-04V | CONNECTOR | W-B (1-4) |
| CN00AU | QGA2001C2-03V | CONNECTOR | W-B (1-3) |
| CN00E1 | QUB130-16EPFX | SIN TWIST WIRE | |
| J2001 | QND0102-001 | S JACK | INPUT-1 S IN |
| J2002 | QNN0370-001 | PIN JACK | INPUT-1 V/L/R IN |
| J2011 | QND0102-001 | S JACK | INPUT-2 S IN |
| J2012 | QNN0370-001 | PIN JACK | INPUT-2 V/L/R IN |
| J2021 | QNN0370-001 | PIN JACK | COMPONENT IN |
| J2031 | QND0102-001 | S JACK | S OUT |
| J2032 | QNN0370-001 | PIN JACK | V/L/R OUT |
| K6101 | NQR0413-002X | FERRITE BEADS | |
| K6591 | NQR0413-002X | FERRITE BEADS | |
| K6592 | NQR0413-002X | FERRITE BEADS | |
| K6641 | NQR0413-002X | FERRITE BEADS | |
| K6642 | NQR0413-002X | FERRITE BEADS | |
| K6643 | NQR0413-002X | FERRITE BEADS | |
| K6644 | NQR0413-002X | FERRITE BEADS | |
| △TU1101 | QAU0322-001 | TUNER | |

FRONT SENSOR P.W.BOARD ASSY (LCA90155-03B) (SSB-0L286A)

| △Ref No. | Part No. | Part Name | Description Local |
|----------|--------------|----------------|-------------------|
| IC8752 | GP1UM281QK | IR DETECT UNIT | 38kHz |
| C8752 | QEKJ1CM-476Z | E CAPACITOR | 47uF 16V M |
| R8756 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R8757 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J |
| R8759 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J |
| CN8003 | QGB2542J1-08 | CONNECTOR | B-B (1-8) |

FRONT CONTROL P.W.BOARD ASSY (LCA90154-03D) (SSB-0L386A)

| △Ref No. | Part No. | Part Name | Description Local |
|----------|-----------------|-------------|-------------------|
| Q8701 | UN2212-X | TRANSISTOR | |
| Q8702 | UN2212-X | TRANSISTOR | |
| Q8703 | 2SC3928A/QR/-X | TRANSISTOR | |
| D6411 | MA8062/M/-X | Z DIODE | |
| D6412 | MA8062/M/-X | Z DIODE | |
| D6413 | MA8062/M/-X | Z DIODE | |
| D8702 | HLMPSN30J00-T16 | LED | POWER |
| C6411 | QETN1AM-227Z | E CAPACITOR | 220uF 10V M |
| C6412 | QETN1AM-227Z | E CAPACITOR | 220uF 10V M |
| C6413 | NDC31HJ-102X | C CAPACITOR | 1000pF 50V J |
| C6414 | NDC31HJ-102X | C CAPACITOR | 1000pF 50V J |
| R6411 | NRSA63J-390X | MG RESISTOR | 39Ω 1/16W J |
| R6412 | NRSA63J-390X | MG RESISTOR | 39Ω 1/16W J |

| △Ref No. | Part No. | Part Name | Description Local |
|----------|---------------|----------------|-------------------|
| R6413 | NRSA63J-390X | MG RESISTOR | 39Ω 1/16W J |
| R6414 | NRSA63J-390X | MG RESISTOR | 39Ω 1/16W J |
| R6415 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J |
| R6416 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J |
| R6417 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J |
| R8701 | NRSA63J-562X | MG RESISTOR | 5.6kΩ 1/16W J |
| R8702 | NRSA63J-153X | MG RESISTOR | 15kΩ 1/16W J |
| R8703 | NRSA63J-562X | MG RESISTOR | 5.6kΩ 1/16W J |
| R8704 | NRSA63J-153X | MG RESISTOR | 15kΩ 1/16W J |
| R8712 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J |
| R8713 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |
| R8714 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J |
| CN3003 | QGB2542K1-08 | CONNECTOR | B-B (1-8) |
| CN300T | QGA1501C2-10V | CONNECTOR | W-B (1-10) |
| CN300U | QGA1501C2-04V | CONNECTOR | W-B (1-4) |
| J6401 | QMS3004-C01 | HEADPHONE JACK | HEADPHONE |
| S8701 | QSW0797-001 | TACT SWITCH | VOL+ |
| S8702 | QSW0797-001 | TACT SWITCH | VOL- |
| S8703 | QSW0797-001 | TACT SWITCH | CH+ |
| S8704 | QSW0797-001 | TACT SWITCH | CH- |
| S8705 | QSW0797-001 | TACT SWITCH | INPUT |
| S8706 | QSW0797-001 | TACT SWITCH | MENU |
| S8707 | QSW0797-001 | TACT SWITCH | POWER |

MI-COM & DIST MODULE P.W.BOARD (LCA10291-05A) (SSB-0D099A)

| △Ref No. | Part No. | Part Name | Description Local |
|----------------|---------------------------------|--------------------------------|-------------------|
| MD001 IC704 | LCA10291-05A AT24C32-32WX84K | MI-COM & DIST MODULE PWB IC | (SERVICE) |

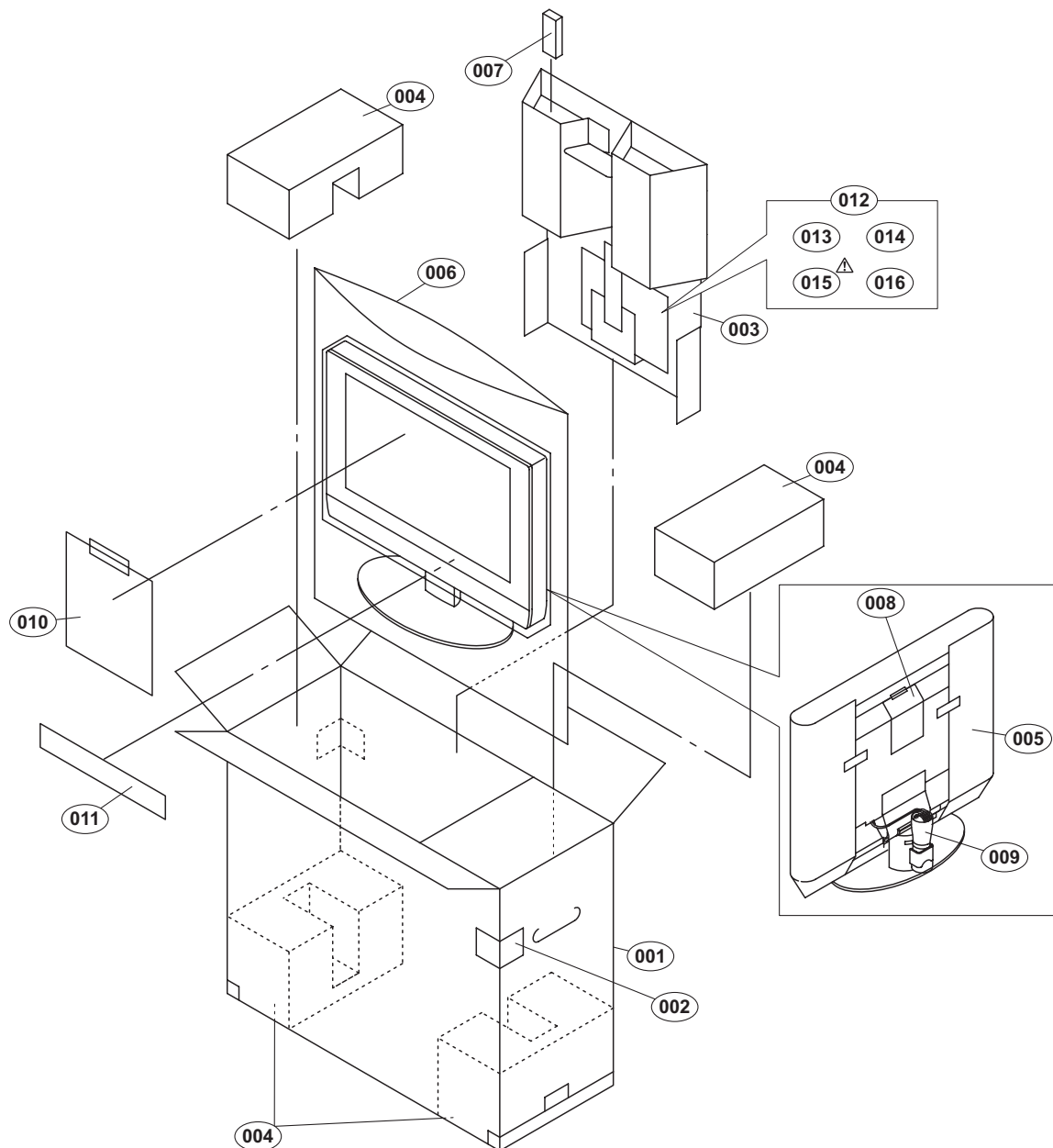
DIGITAL INPUT MODULE P.W.BOARD (32WX84KCP-S)

| △Ref No. | Part No. | Part Name | Description Local |
|----------|-------------|--------------------------|-------------------|
| MD001 | 32WX84KCP-S | DIGITAL INPUT MODULE PWB | |

REMOTE CONTROL UNIT PARTS LIST (RM-C13G-1H)

| △Ref No. | Part No. | Part Name | Description Local |
|----------|----------|---------------|-------------------|
| | R25-8173 | BATTERY COVER | |

PACKING



PACKING PARTS LIST

| △ Ref.No. | Part No. | Part Name | Description | Local |
|-----------|----------------|---------------|--------------|-------|
| 001 | LC10006-033A | PACKING CASE | | |
| 002 | GG20025-001A-H | CORNER LABEL | (x2) | |
| 003 | LC21479-001B | CUSHION | | |
| 004 | LC11697-001B | CUSHION ASSY | 4pcs in 1set | |
| 005 | LC41664-003A | SET COVER | | |
| 006 | CP30974-001 | POLY BAG | | |
| 007 | RM-C13G-1H | REMOCON UNIT | Inc.POLY BAG | |
| 008 | LCT1623-001A | CAUTION SHEET | | |
| 009 | QPA01002305 | POLY BAG | 10cm x 23cm | |
| 010 | LCT1624-001A | INST SHEET | | |
| 011 | LC41748-001A | CARTON SHEET | | |
| 012 | QPA02503505P | POLY BAG | 25cm x 35cm | |
| 013 | ----- | BATTERY | R6P/AA(x2) | |
| 014 | BT-56013-1 | WARRANTY CARD | | |
| △ 015 | LCT1626-001A | INST BOOK | | |
| 016 | LCT1625-001A | INST SHEET | | |

JVC

SCHEMATIC DIAGRAMS

LCD FLAT TELEVISION

LT-32WX84 /K

CD-ROM No.SML200404

| |
|---------------|
| BASIC CHASSIS |
| SB5 |



*I'Art*TM *Palette*
D.I.S.T.
Digital Image Scaling Technology

BBE

STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the \triangle symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

- (1)Input signal : Colour bar signal
- (2)Setting positions of each knob/button and variable resistor : Original setting position when shipped
- (3)Internal resistance of tester : DC 20k Ω /V
- (4)Oscilloscope sweeping time : H \Rightarrow 20 μ s / div
: V \Rightarrow 5ms / div
: Others \Rightarrow Sweeping time is specified
- (5)Voltage values : All DC voltage values

* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL [EXAMPLE]

- In the PW board : R1209 \rightarrow R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

- Resistance value

No unit : [Ω]
K : [k Ω]
M : [M Ω]

- Rated allowable power

No indication : 1/16 [W]
Others : As specified

- Type

No indication : Carbon resistor
OMR : Oxide metal film resistor
MFR : Metal film resistor
MPR : Metal plate resistor
UNFR : Uninflamable resistor
FR : Fusible resistor

* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

- Capacitance value

1 or higher : [pF]
less than 1 : [μ F]

- Withstand voltage

No indication : DC50[V]
Others : DC withstand voltage [V]
AC indicated : AC withstand voltage [V]

* Electrolytic Capacitors

47/50[Example]: Capacitance value [μ F]/withstand voltage[V]

- Type

No indication : Ceramic capacitor
MM : Metalized mylar capacitor
PP : Polypropylene capacitor
MPP : Metalized polypropylene capacitor
MF : Metalized film capacitor
TF : Thin film capacitor
BP : Bipolar electrolytic capacitor
TAN : Tantalum capacitor

(3)Coils

No unit : [μ H]
Others : As specified

(4)Power Supply




 : B1  : B2 (12V)
 : 9V  : 5V

* Respective voltage values are indicated





(5)Test point

 : Test point  : Only test point display



(6)Connecting method

 : Connector  : Wrapping or soldering
 : Receptacle

(7)Ground symbol

 : LIVE side ground
 : ISOLATED(NEUTRAL) side ground
 : EARTH ground
 : DIGITAL ground

5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : () side GND and the ISOLATED(NEUTRAL) : () side GND. Therefore, care must be taken for the following points.

- (1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. if the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
- (2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.

◆ Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

NOTE

◆ Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.
When ordering parts, please use the numbers that appear in the Parts List.

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USING P.W. BOARD

| PWB ASS'Y name | PWB ASS'Y No. |
|--------------------------|---------------------------|
| RECEIVER P.W. BOARD | LCA90182-01B (SSB-0J086A) |
| VIDEO P.W. BOARD | LCA90152-03C (SSB-1086A) |
| POWER P.W. BOARD | LCA90149-07F (SSB-9091A) |
| REGULATOR P.W. BOARD | LCA90150-07D (SSB-9191A) |
| FRONT SENSOR P.W. BOARD | LCA90155-03B (SSB-0L286A) |
| FRONT CONTROL P.W. BOARD | LCA90154-03D (SSB-0L386A) |

SEMICONDUCTOR SHAPES

TRANSISTOR

| BOTTOM VIEW | FRONT VIEW | | | | TOP VIEW |
|-------------|------------|--|--|--|-------------|
| | | | | | CHIP TR |

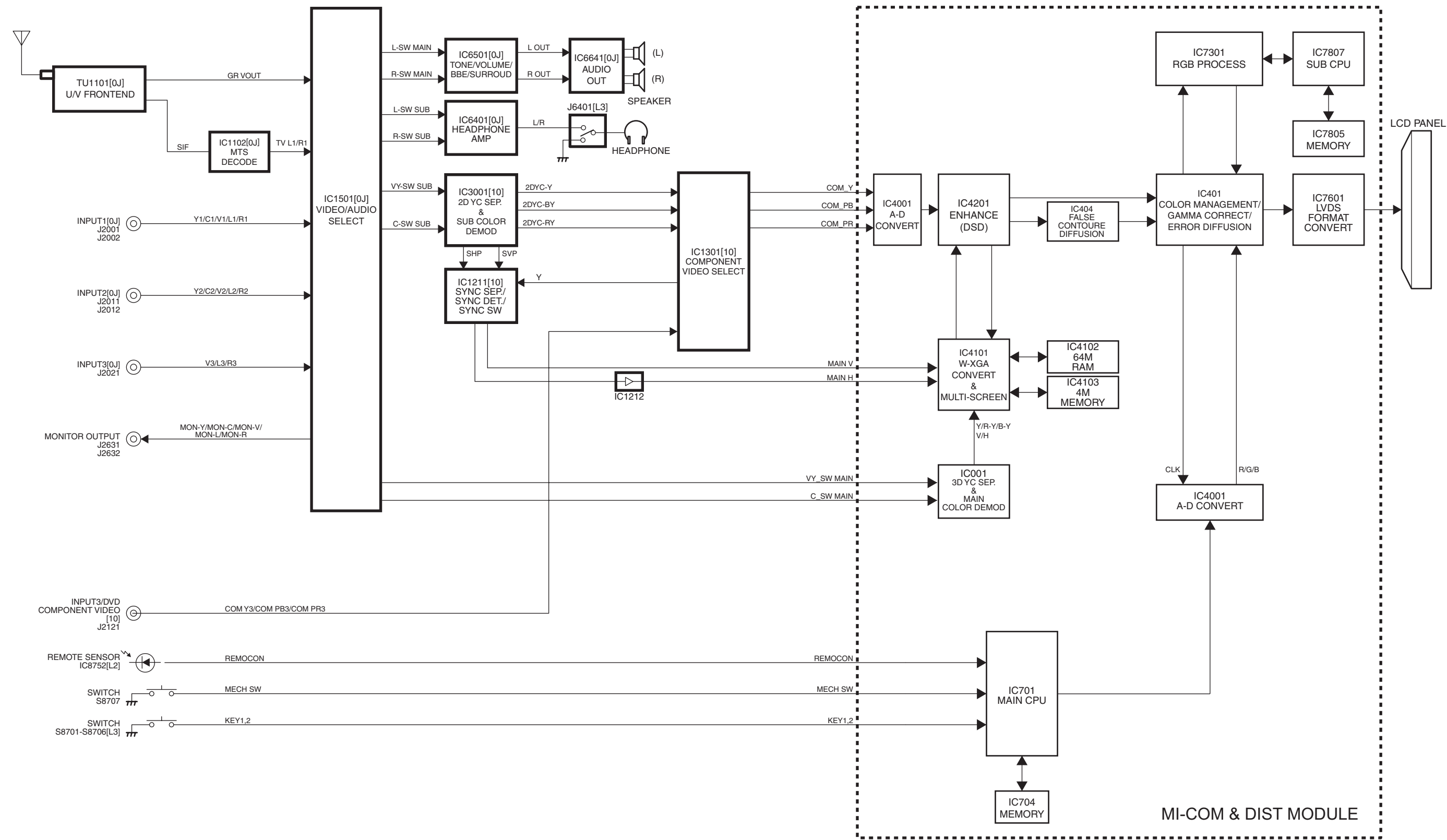
IC

| BOTTOM VIEW | FRONT VIEW | | | TOP VIEW |
|-------------|------------|--|--|----------|
| | | | | |

CHIP IC

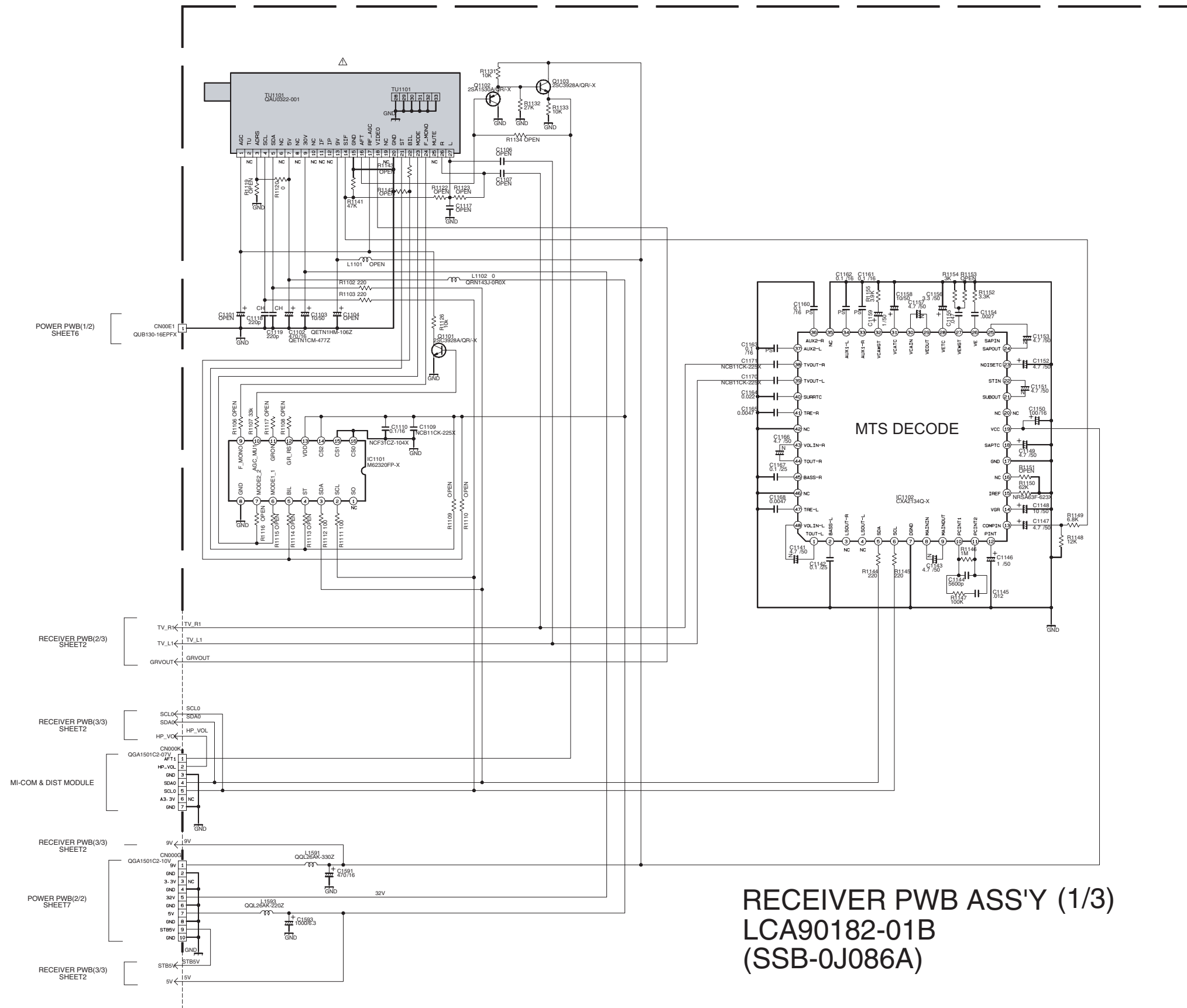
| TOP VIEW | | |
|----------|--|--|
| | | |

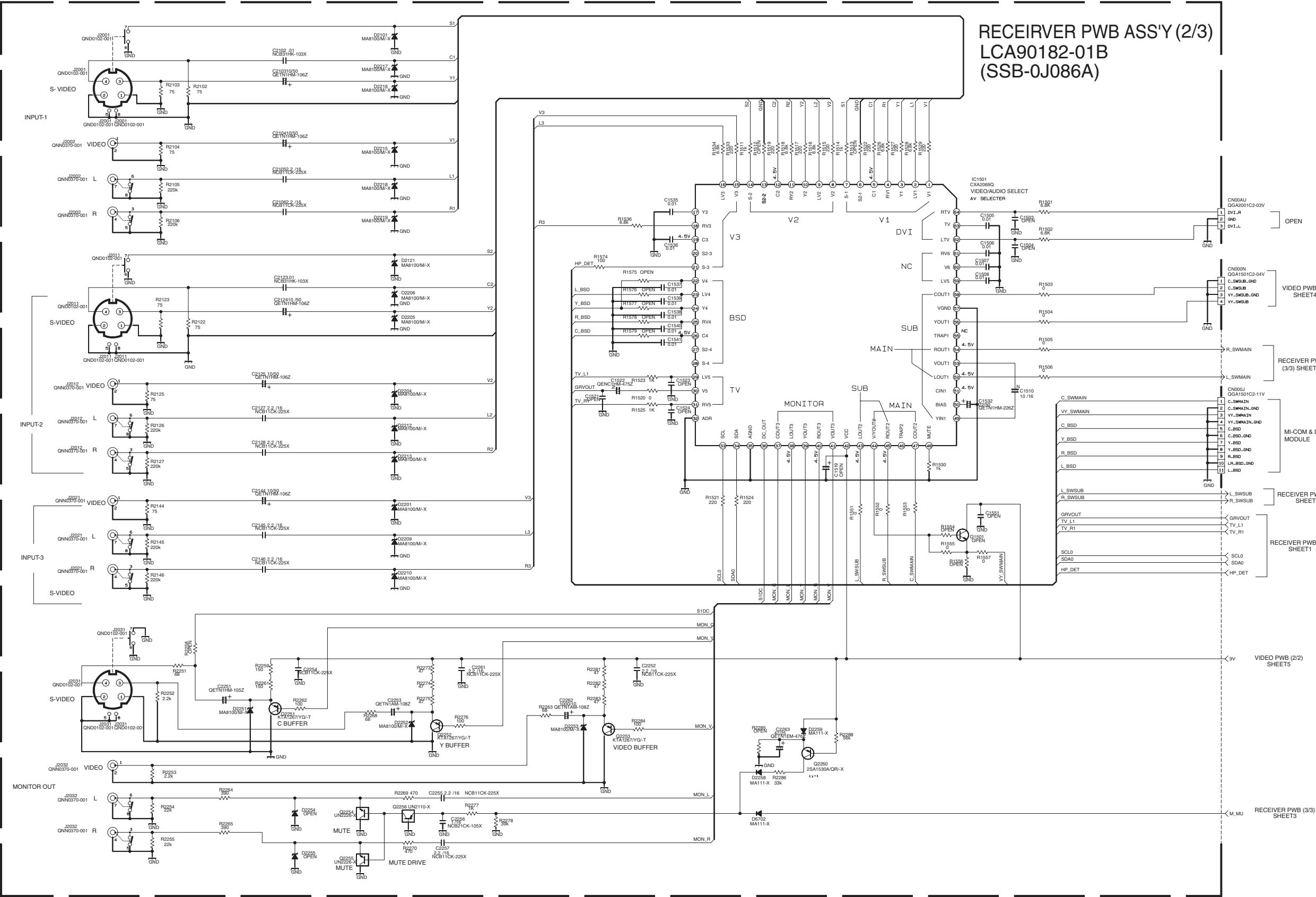
BLOCK DIAGRAM



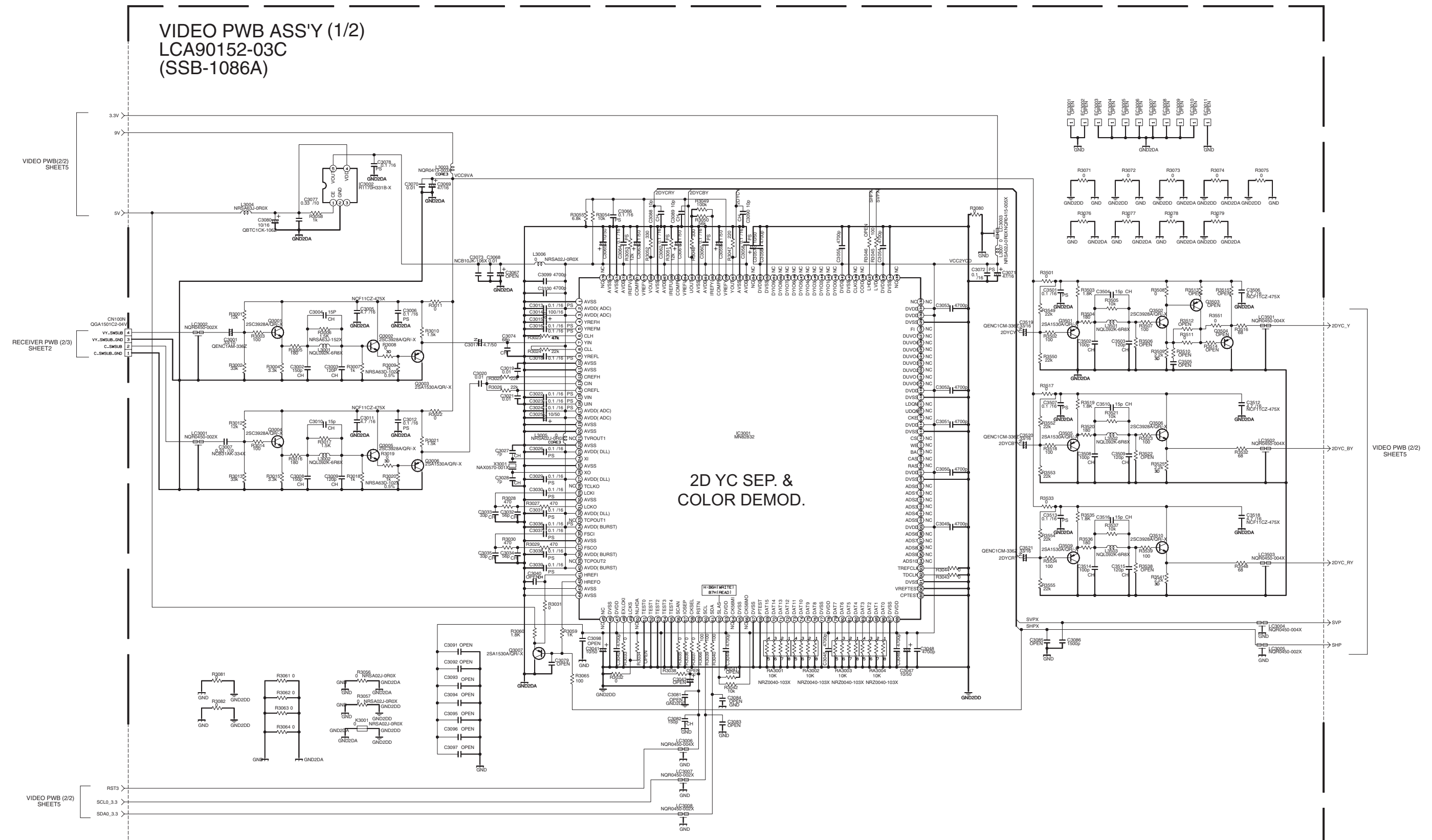
RECEIVER PWB CIRCUIT DIAGRAM (1/3) SHEET1

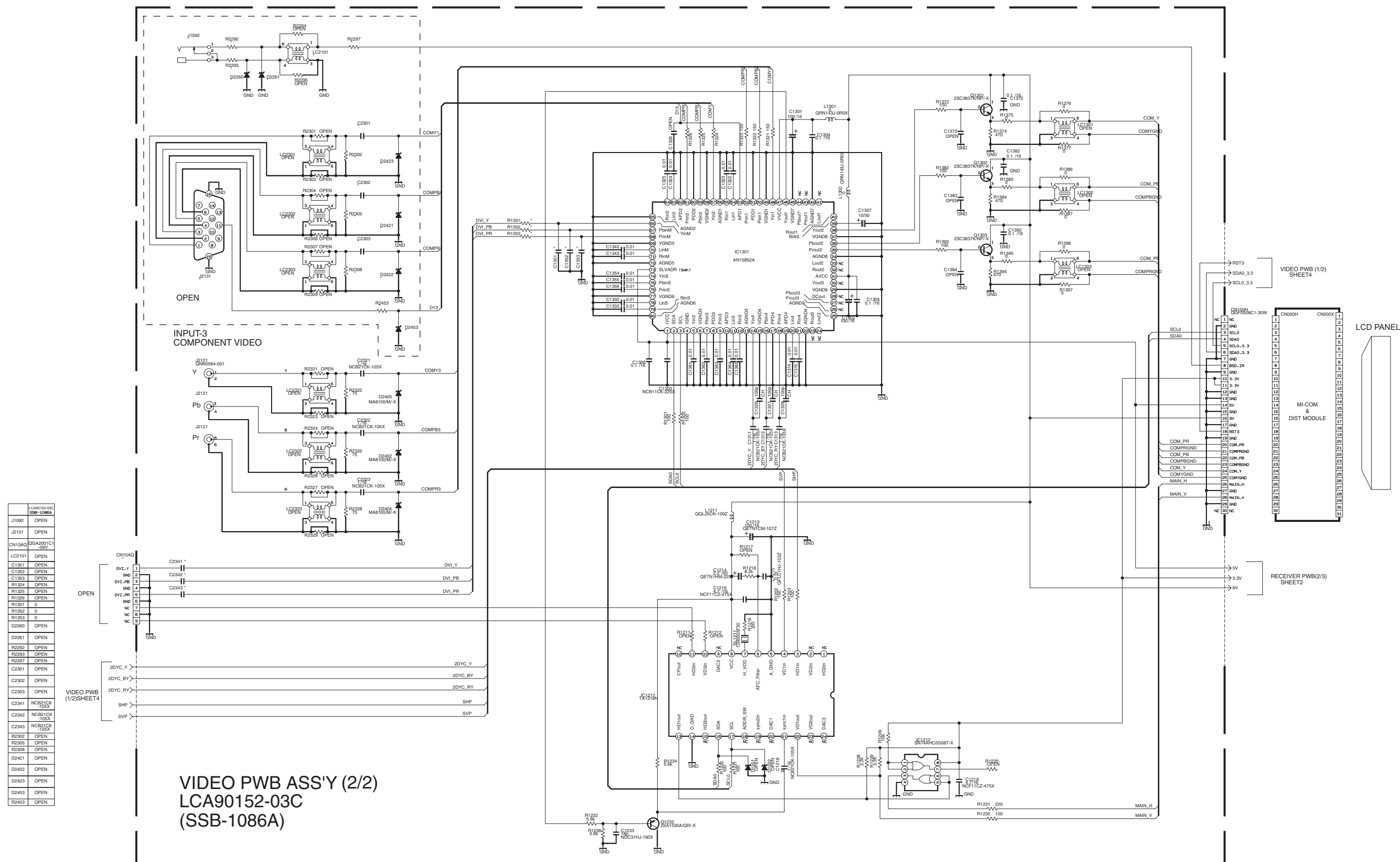
RECEIVER PWB CIRCUIT DIAGRAM (1/3) SHEET1

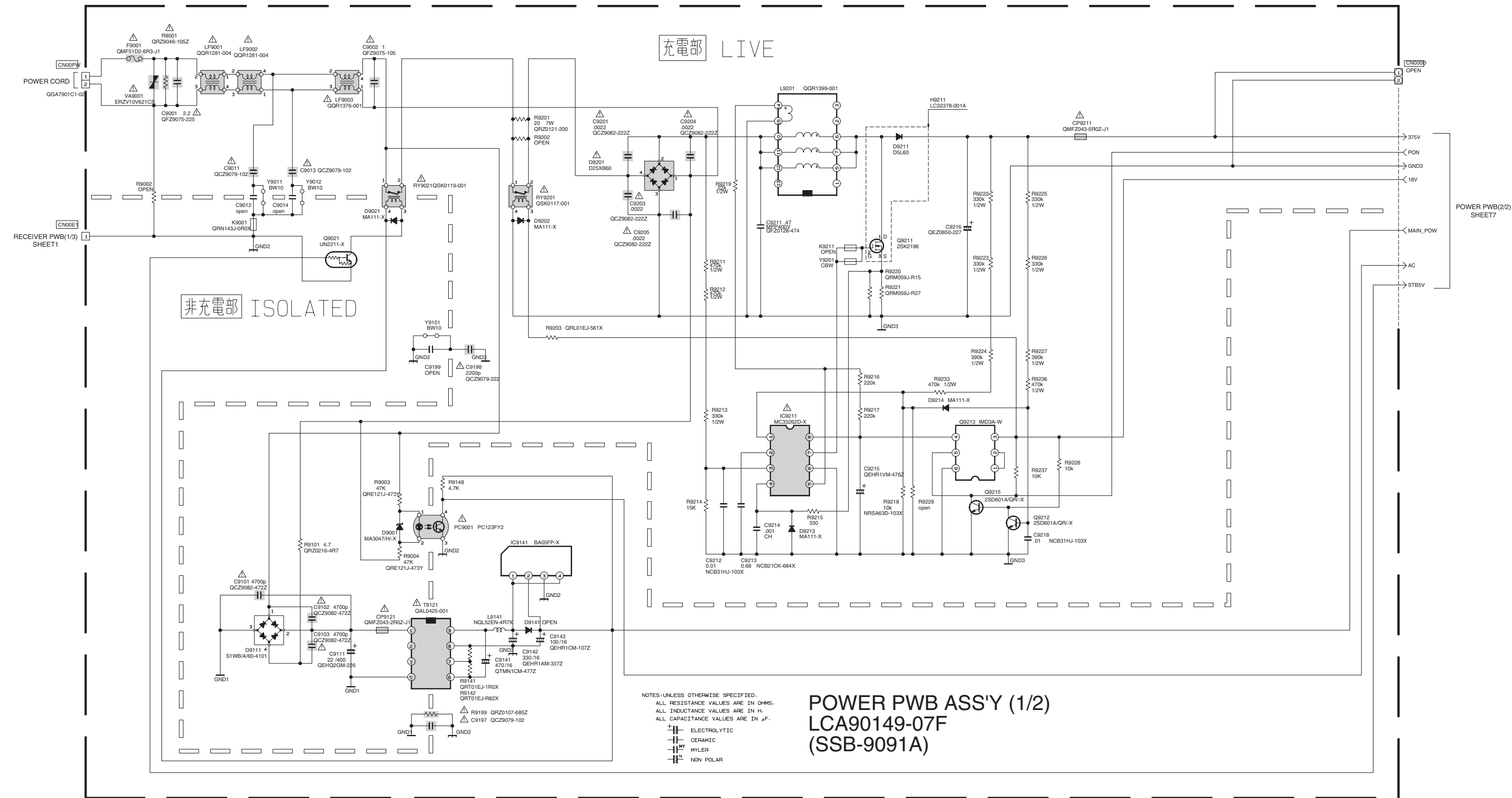


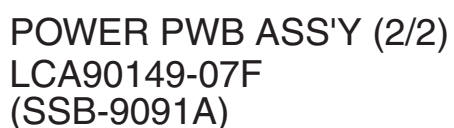


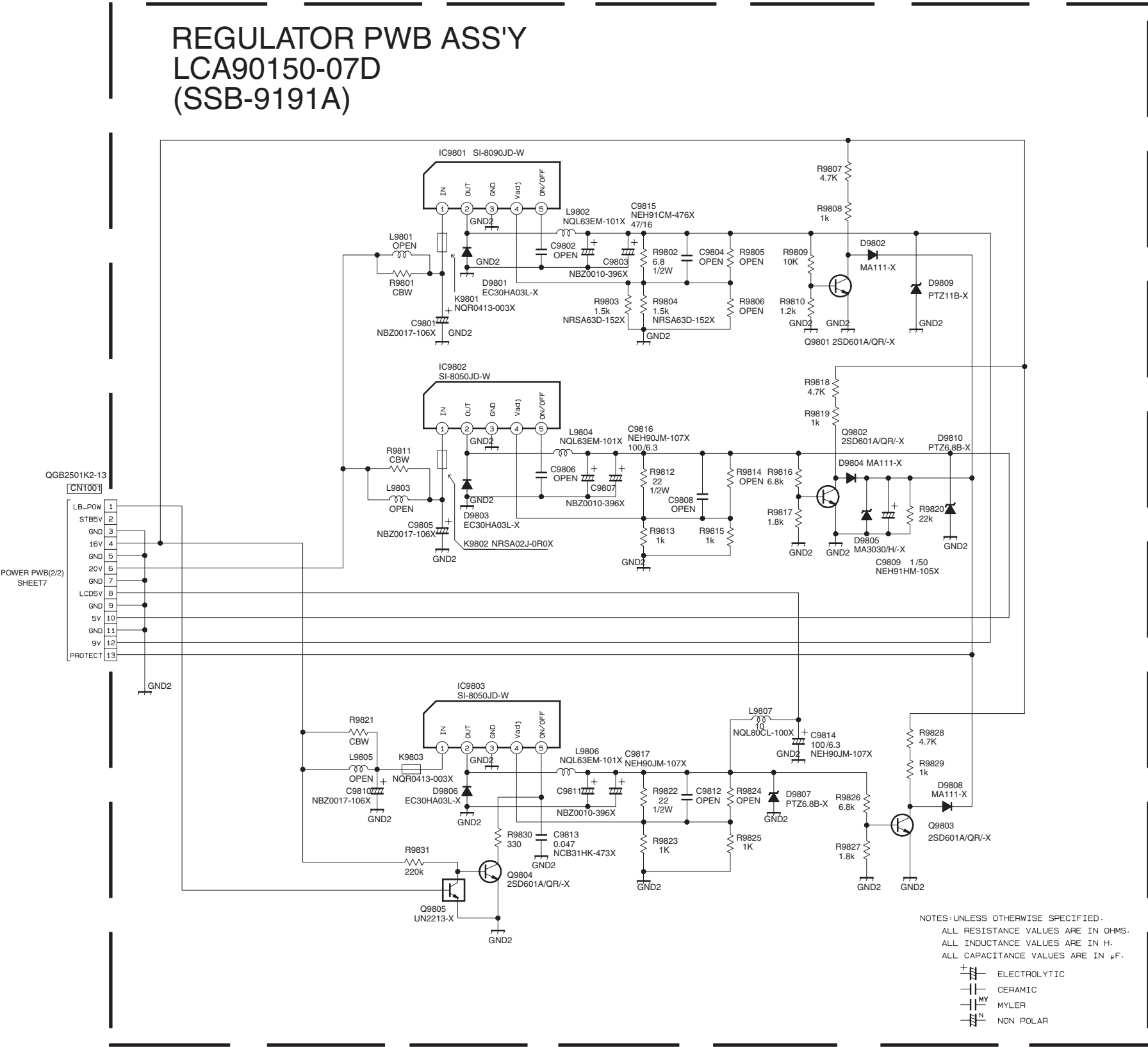




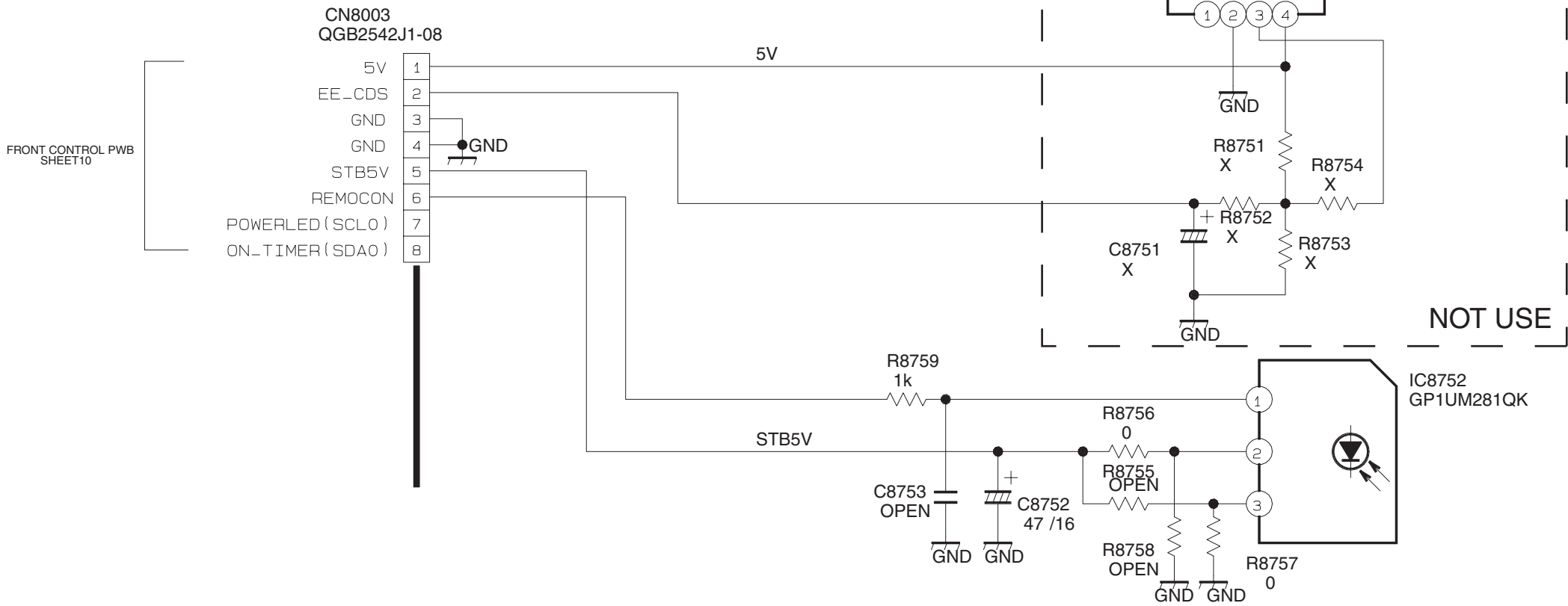


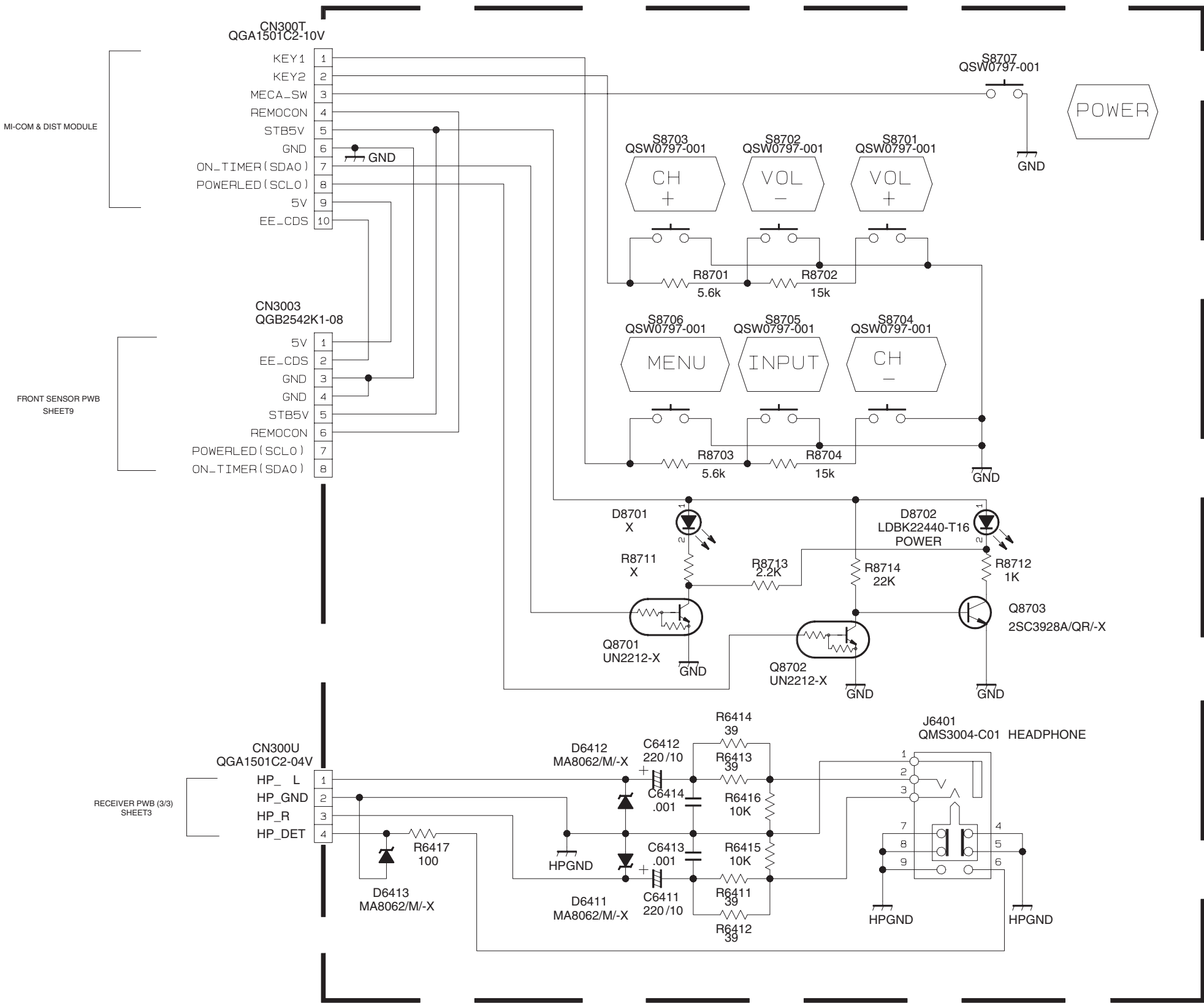






FRONT SENSOR PWB ASS'Y
LCA90155-03B
(SSB-0L286A)

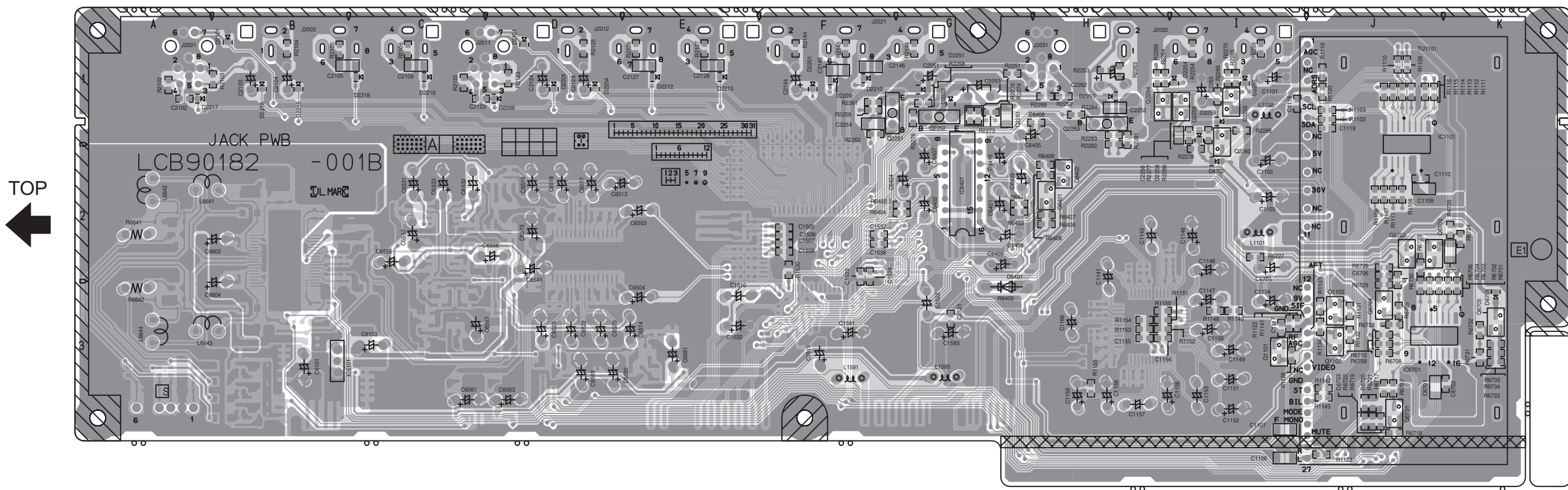




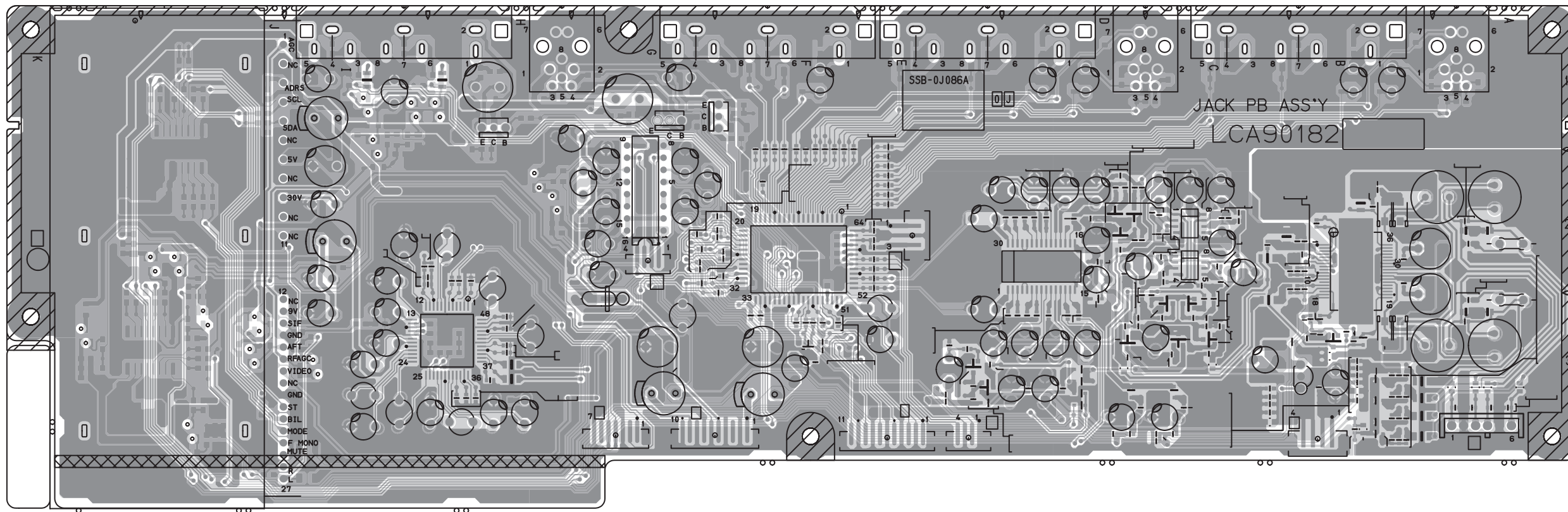
FRONT CONTROL PWB ASS'Y
LCA90154-03D
(SSB-0L386A)

PATTERN DIAGRAMS

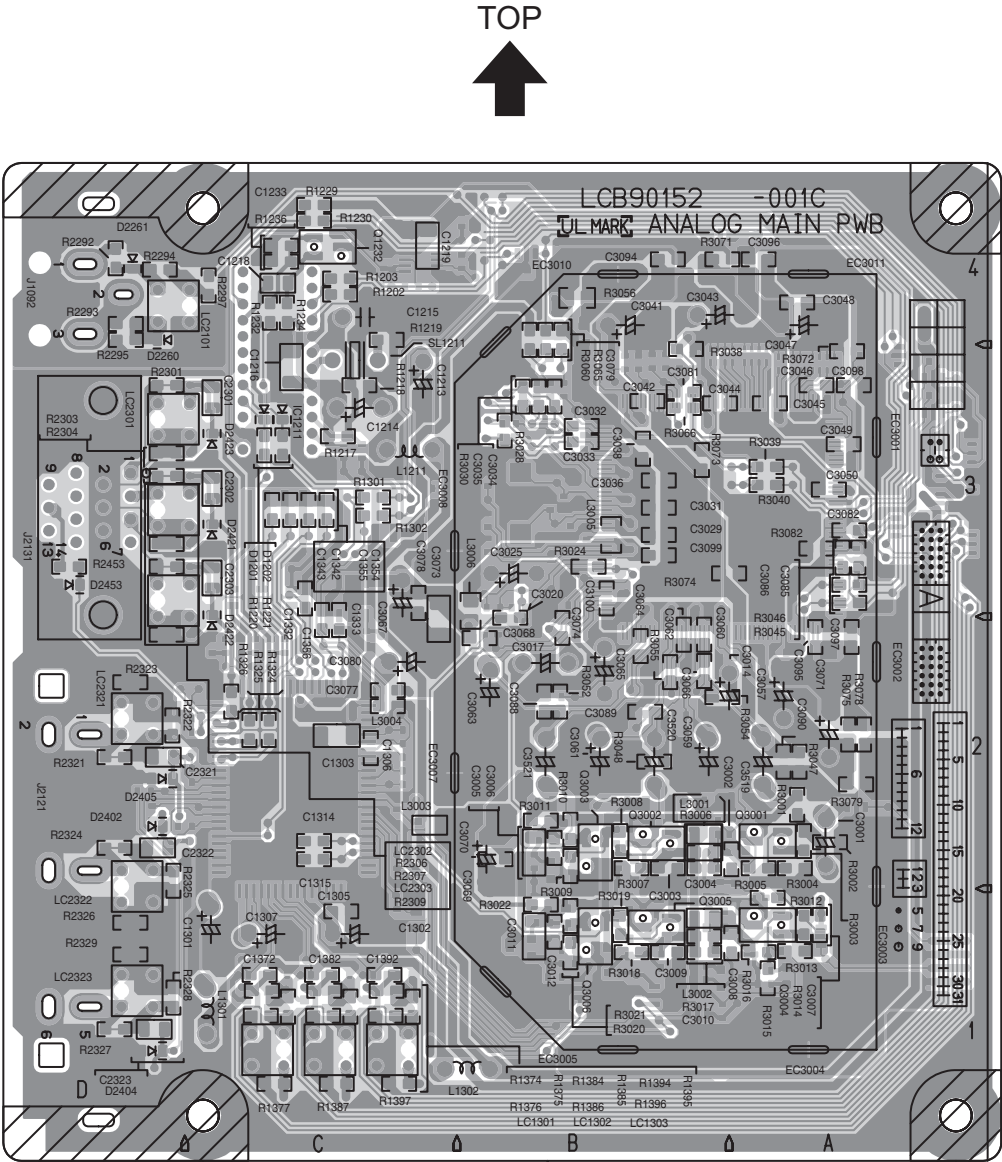
RECEIVER PWB PATTERN [SOLDER SIDE]



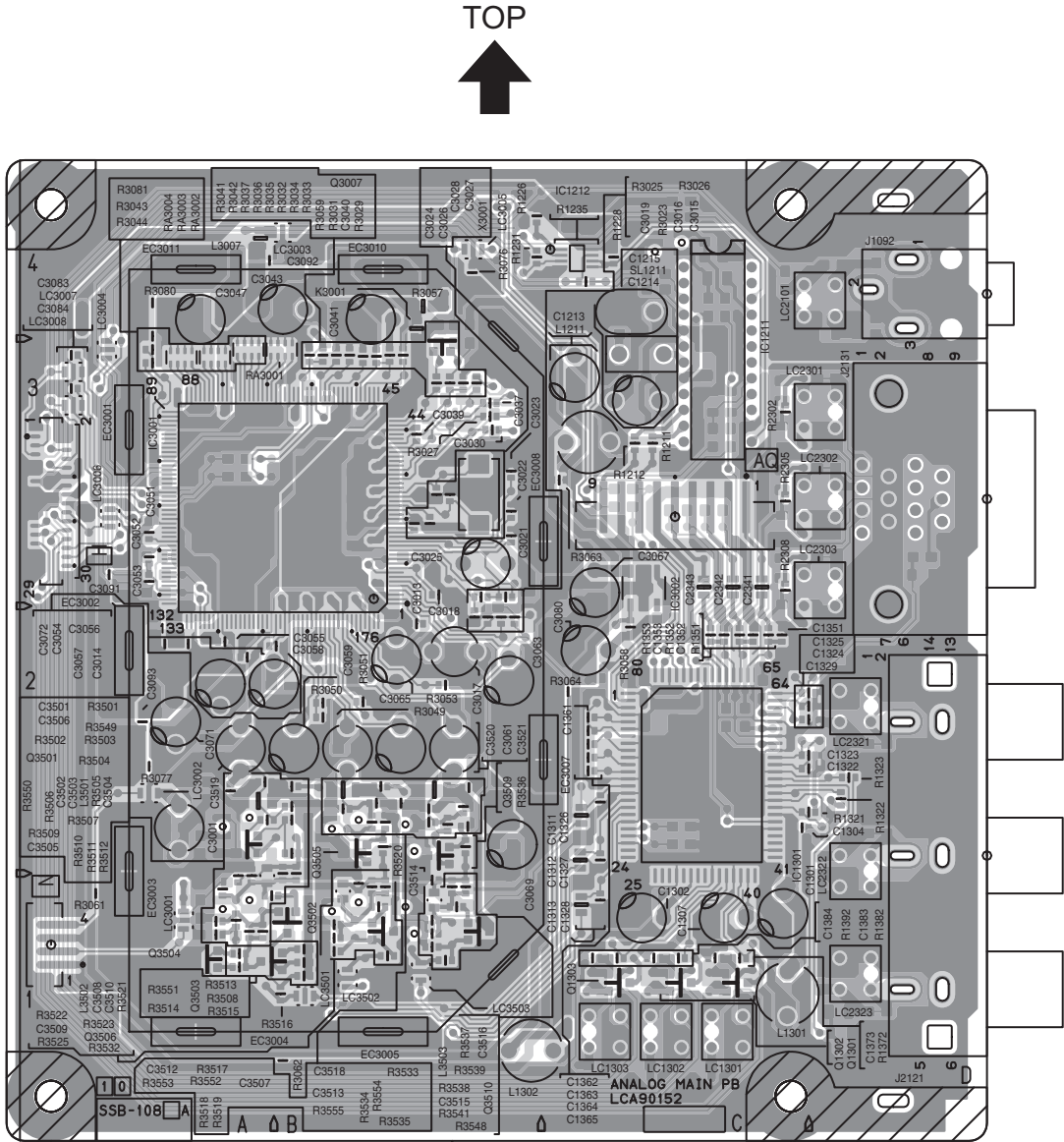
RECEIVER PWB PATTERN [PARTS SIDE]

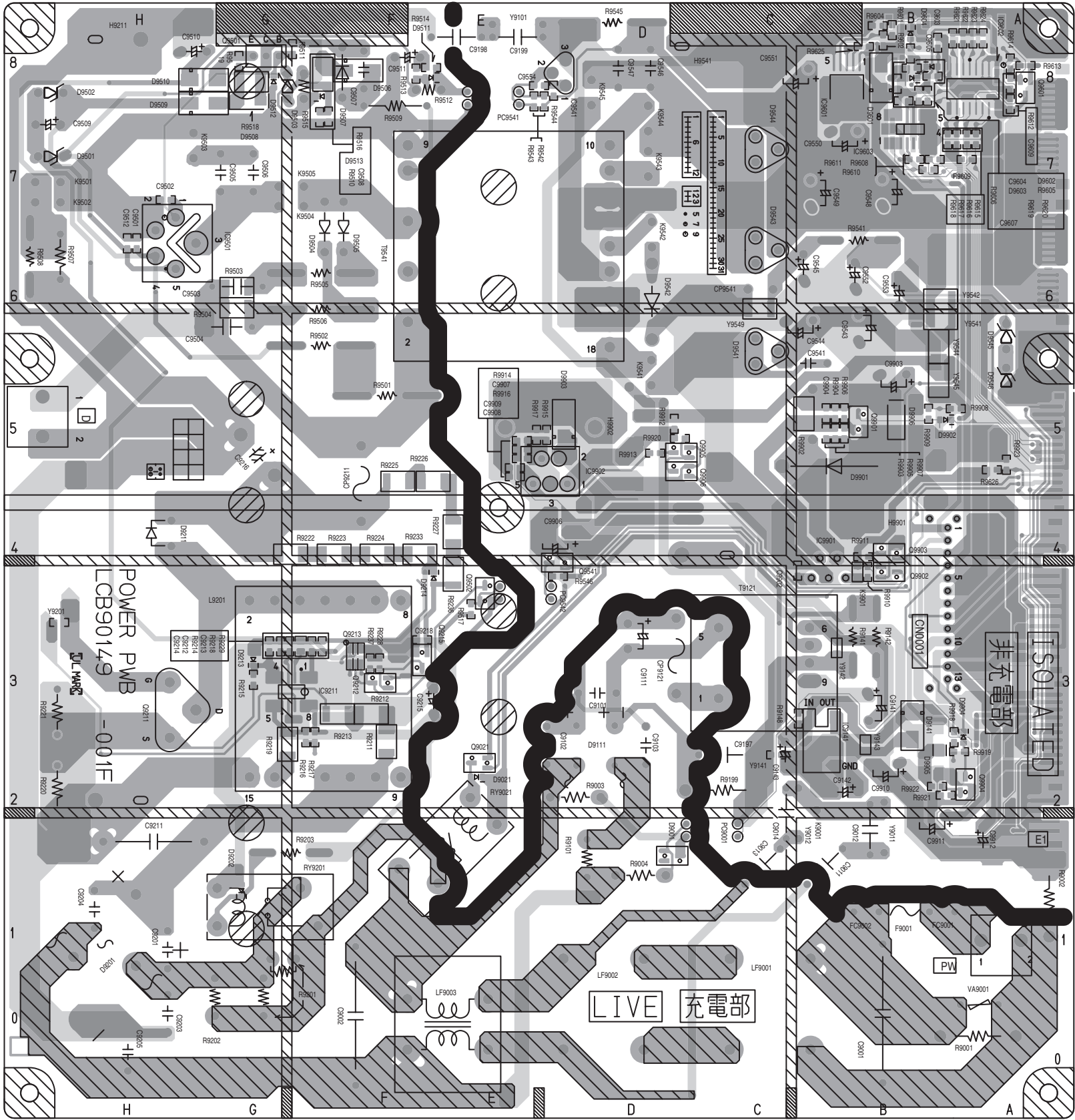


VIDEO PWB PATTERN [SOLDER SIDE]

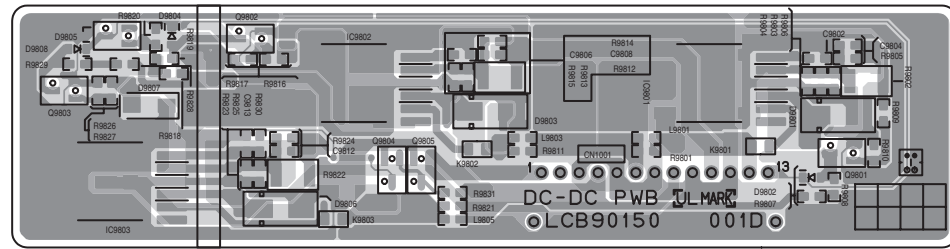


VIDEO PWB PATTERN [PARTS SIDE]



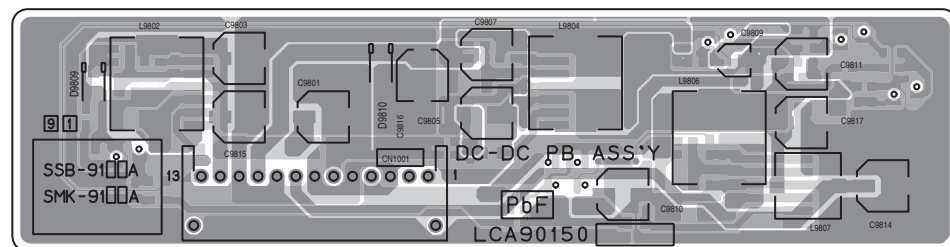


REGULATOR PWB PATTERN [SOLDER SIDE]



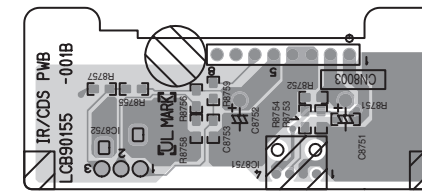
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FRONT

REGULATOR PWB PATTERN [PARTS SIDE]



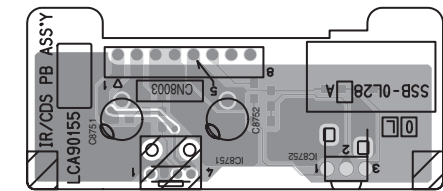
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FRONT

FRONT SENSOR PWB PATTERN [SOLDER SIDE]



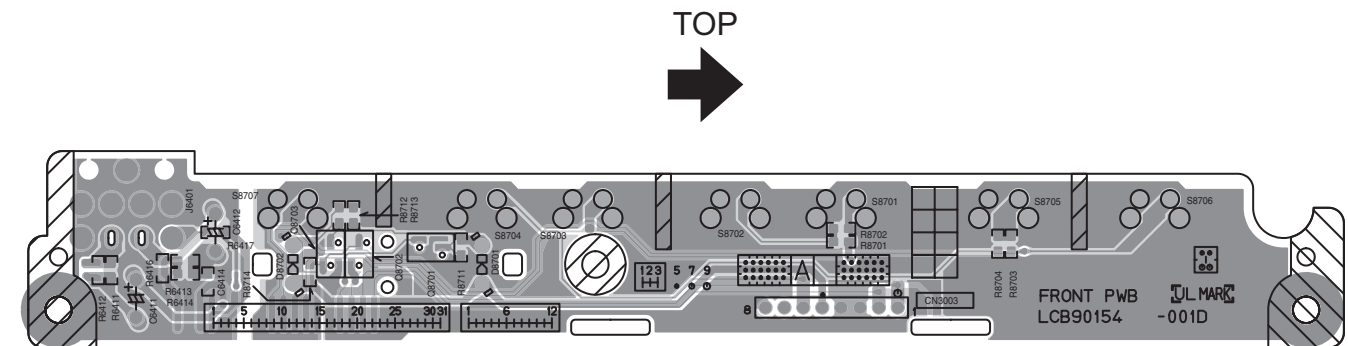
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FRONT

FRONT SENSOR PWB PATTERN [PARTS SIDE]

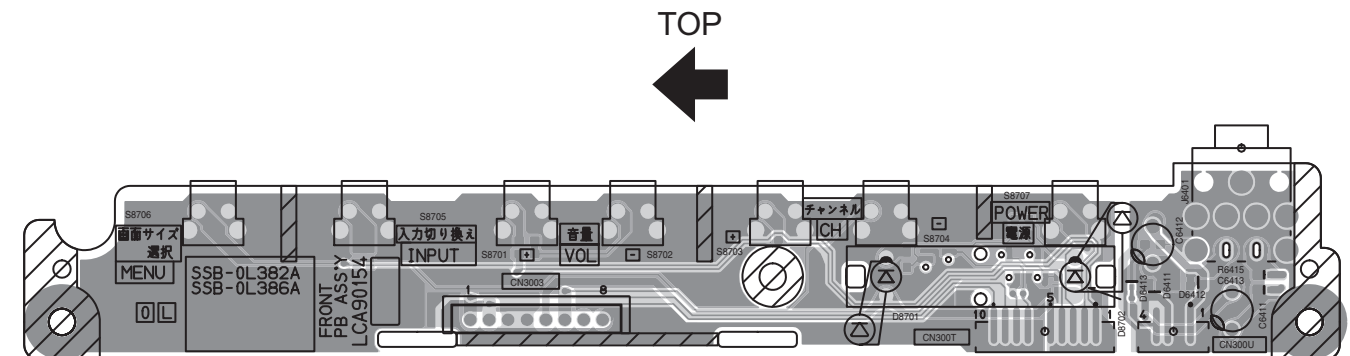


↓
FRONT

FRONT CONTROL PWB PATTERN [SOLDER SIDE]



FRONT CONTROL PWB PATTERN [PARTS SIDE]



VOLTAGE CHARTS

| <RECEIVER> | |
|--------------|--------|
| MODE PIN NO. | DC (V) |
| IC1101 | |
| 1 | 0 |
| 2 | 4.2 |
| 3 | 3.0 |
| 4 | 0.5 |
| 5 | 0.5 |
| 6 | 0.5 |
| 7 | 0.5 |
| 8 | 0 |
| 9 | 0.5 |
| 10 | 0 |
| 11 | 0.5 |
| 12 | 0.5 |
| 13 | 5.2 |
| 14 | 5.2 |
| 15 | 0 |
| 16 | 0 |
| IC1102 | |
| 1 | 4.2 |
| 2 | 4.2 |
| 3 | 4.1 |
| 4 | 4.1 |
| 5 | 2.9 |
| 6 | 4.2 |
| 7 | 0 |
| 8 | 4.1 |
| 9 | 0 |
| 10 | 4.1 |
| 11 | 4.0 |
| 12 | 5.3 |
| 13 | 4.1 |
| 14 | 1.3 |
| 15 | 1.3 |
| 16 | 0 |
| 17 | 0 |
| 18 | 3.1 |
| 19 | 9.0 |
| 20 | 0 |
| 21 | 4.1 |
| 22 | 4.1 |
| 23 | 4.2 |
| 24 | 3.9 |
| 25 | 4.1 |
| 26 | 4.0 |
| 27 | 4.1 |
| 28 | 1.7 |
| 29 | 4.1 |
| 30 | 4.1 |
| 31 | 1.7 |
| 32 | 4.0 |
| 33 | 4.1 |
| 34 | 4.1 |
| 35 | 0 |
| 36 | 4.1 |
| 37 | 4.1 |
| 38 | 4.1 |
| 39 | 4.1 |
| 40 | 4.1 |
| 41 | 4.1 |
| 42 | 0 |
| 43 | 4.1 |
| 44 | 0 |
| 45 | 4.2 |
| 46 | 0 |
| 47 | 4.2 |
| 48 | 4.1 |
| IC1501 | |
| 1 | 4.3 |
| 2 | 4.5 |
| 3 | 4.0 |
| 4 | 4.4 |
| 5 | 4.4 |
| 6 | 0 |
| 7 | 5.0 |
| 8 | 4.0 |
| 9 | 4.5 |
| 10 | 3.9 |
| 11 | 4.5 |
| 12 | 4.4 |
| 13 | 0 |
| 14 | 5.0 |
| 15 | 3.9 |
| 16 | 4.5 |
| 17 | 3.9 |
| 18 | 4.5 |
| 19 | 4.4 |
| 20 | 0.1 |
| 21 | 5.1 |
| 22 | 3.9 |
| 23 | 4.5 |
| 24 | 4.0 |
| 25 | 4.5 |
| 26 | 4.4 |
| 27 | 0 |
| 28 | 5.0 |
| 29 | 4.5 |
| 30 | 5.5 |
| 31 | 4.4 |

| MODE PIN NO. | DC (V) |
|--------------|--------|
| 32 | 0 |
| 33 | 4.3 |
| 34 | 2.9 |
| 35 | 0 |
| 36 | 0 |
| 37 | 4.4 |
| 38 | 4.5 |
| 39 | 3.7 |
| 40 | 4.5 |
| 41 | 3.7 |
| 42 | 9.0 |
| 43 | 4.5 |
| 44 | 4.3 |
| 45 | 4.5 |
| 46 | 3.7 |
| 47 | 4.4 |
| 48 | 0 |
| 49 | 3.9 |
| 50 | 4.5 |
| 51 | 4.4 |
| 52 | 4.5 |
| 53 | 3.7 |
| 54 | 4.5 |
| 55 | 3.7 |
| 56 | 3.2 |
| 57 | 0 |
| 58 | 4.3 |
| 59 | 4.5 |
| 60 | 3.9 |
| 61 | 4.5 |
| 62 | 4.5 |
| 63 | 3.9 |
| 64 | 4.4 |
| IC6101 | |
| 1 | 11.9 |
| 2 | 0.0 |
| 3 | 13.9 |
| IC6401 | |
| 1 | 0.0 |
| 2 | 2.0 |
| 3 | 1.9 |
| 4 | 1.9 |
| 5 | 2.0 |
| 6 | 3.8 |
| 7 | 1.9 |
| 8 | 0.0 |
| 9 | 4.5 |
| 10 | 1.9 |
| 11 | 0.0 |
| 12 | 1.9 |
| 13 | 2.0 |
| 14 | 1.9 |
| 15 | 1.9 |
| 16 | 1.9 |
| IC6501 | |
| 1 | 5.9 |
| 2 | 6.0 |
| 3 | 6.0 |
| 4 | 5.9 |
| 5 | 5.9 |
| 6 | 6.0 |
| 7 | 5.9 |
| 8 | 6.0 |
| 9 | 6.0 |
| 10 | 6.0 |
| 11 | 3.0 |
| 12 | 2.9 |
| 13 | 4.1 |
| 14 | 4.2 |
| 15 | 0.0 |
| 16 | 11.9 |
| 17 | 4.5 |
| 18 | 0.0 |
| 19 | 5.3 |
| 20 | 5.2 |
| 21 | 5.9 |
| 22 | 6.0 |
| 23 | 6.0 |
| 24 | 6.0 |
| 25 | 6.0 |
| 26 | 6.0 |
| 27 | 6.0 |
| 28 | 6.0 |
| 29 | 6.0 |
| 30 | 6.0 |
| IC6531 | |
| 1 | 6.2 |
| 2 | 6.3 |
| 3 | 6.2 |
| 4 | 0.0 |
| 5 | 6.2 |
| 6 | 6.2 |
| 7 | 6.3 |
| 8 | 11.9 |
| IC6551 | |
| 1 | 6.3 |
| 2 | 6.3 |
| 3 | 6.2 |

| MODE PIN NO. | DC (V) |
|--------------|--------|
| 4 | 0.0 |
| 5 | 6.2 |
| 6 | 0.0 |
| 7 | 6.3 |
| 8 | 11.9 |
| IC6641 | |
| 1 | 5.1 |
| 2 | 0.0 |
| 3 | 6.9 |
| 4 | 5.1 |
| 5 | 0.0 |
| 6 | 1.0 |
| 7 | 4.3 |
| 8 | 0.0 |
| 9 | 5.1 |
| 10 | 2.4 |
| 11 | 2.3 |
| 12 | 0.0 |
| 13 | 0.0 |
| 14 | 2.4 |
| 15 | 2.4 |
| 16 | 2.4 |
| 17 | 0.0 |
| 18 | 0.0 |
| 19 | 0.0 |
| 20 | 0.0 |
| 21 | 0.0 |
| 22 | 0.0 |
| 23 | 0.0 |
| 24 | 7.0 |
| 25 | 13.9 |
| 26 | 13.9 |
| 27 | 13.9 |
| 28 | 6.9 |
| 29 | 9.6 |
| 30 | 13.9 |
| 31 | 6.9 |
| 32 | 0.0 |
| 33 | 13.9 |
| 34 | 0.0 |
| 35 | 0.0 |
| 36 | 22.1 |
| IC6701 | |
| 1 | 0.0 |
| 2 | 4.5 |
| 3 | 4.2 |
| 4 | 5.2 |
| 5 | 0.0 |
| 6 | 5.4 |
| 7 | 5.4 |
| 8 | 0.0 |
| 9 | 0.1 |
| 10 | 5.3 |
| 11 | 5.4 |
| 12 | 0.0 |
| 13 | 5.4 |
| 14 | 0.0 |
| 15 | 0.0 |
| 16 | 5.5 |
| TU1101 | |
| 1 | 4.2 |
| 2 | 5.8 |
| 3 | 5.2 |
| 4 | 4.3 |
| 5 | 3.0 |
| 6 | 0 |
| 7 | 5.2 |
| 8 | 0 |
| 9 | 31.9 |
| 10 | 0 |
| 11 | 0 |
| 12 | 0 |
| 13 | 0 |
| 14 | 2.4 |
| 15 | 0 |
| 16 | 4.8 |
| 17 | 4.2 |
| 18 | 2.5 |
| 19 | 0 |
| 20 | 0 |
| 21 | 0 |
| 22 | 0 |
| 23 | 0 |
| 24 | 0 |
| 25 | 0 |
| 26 | 0 |
| 27 | 0 |
| Q1101 | |
| E | 0 |
| C | 4.2 |
| B | 0 |
| Q1102 | |
| E | 5.4 |
| C | 0 |
| B | 4.8 |
| Q1103 | |
| E | 4.8 |
| C | 9.0 |

| MODE PIN NO. | DC (V) |
|--------------|--------|
| B | 5.4 |
| Q2251 | |
| E | 5.1 |
| C | 0.0 |
| B | 4.9 |
| Q2252 | |
| E | 4.4 |
| C | 0.0 |
| B | 3.8 |
| Q2253 | |
| E | 4.5 |
| C | 0.0 |
| B | 3.8 |
| Q2254 | |
| E | 0.0 |
| C | 0.0 |
| B | -0.4 |
| Q2255 | |
| E | 0.0 |
| C | 0.0 |
| B | -0.2 |
| Q2256 | |
| E | 0.0 |
| C | -0.2 |
| B | 0.0 |
| Q2260 | |
| E | 9.0 |
| C | -0.3 |
| B | 8.9 |
| Q6401 | |
| E | 3.5 |
| C | 3.4 |
| B | 0.0 |
| Q6402 | |
| E | 0.0 |
| C | 0.0 |
| B | 3.5 |
| Q6504 | |
| E | 0.0 |
| C | 0.0 |
| B | 0.6 |
| Q6505 | |
| E | 0.0 |
| C | 0.0 |
| B | 0.6 |
| Q6506 | |
| E | 0.8 |
| C | 0.6 |
| B | 0.2 |
| Q6551 | |
| E | 0.0 |
| C | 0.0 |
| B | 0.5 |
| Q6552 | |
| E | 0.0 |
| C | 0.0 |
| B | 0.5 |
| Q6581 | |
| E | 0.0 |
| C | 11.8 |
| B | 0.0 |
| Q6582 | |
| E | 11.4 |
| C | -0.4 |
| B | 11.8 |
| Q6591 | |
| E | 0.0 |
| C | 0.0 |
| B | -0.7 |
| Q6592 | |
| E | 0.0 |
| C | 0.0 |
| B | -0.9 |
| Q6593 | |
| E | 0.0 |
| C | -0.8 |
| B | 0.0 |
| Q6601 | |
| E | 0.0 |
| C | 0.0 |
| B | 0.6 |
| Q6702 | |
| E | 5.4 |
| C | 5.4 |
| B | 4.7 |
| Q6703 | |
| E | 0.0 |
| C | 0.0 |
| B | 0.6 |
| Q6704 | |
| E | 0.0 |
| C | 5.4 |
| B | 0.0 |
| Q6705 | |
| E | 5.4 |
| C | 0.0 |
| B | 5.3 |
| CN000K | |

| MODE PIN NO. | DC (V) |
|--------------|--------|
| 1 | 4.8 |
| 2 | 0 |
| 3 | 0 |
| 4 | 2.9 |
| 5 | 4.3 |
| 6 | 3.3 |
| 7 | 0 |
| CN000J | |
| 1 | 4.4 |
| 2 | 0 |
| 3 | 4.3 |
| 4 | 0 |
| 5 | 0 |
| 6 | 0 |
| 7 | 0 |
| 8 | 0 |
| 9 | 0 |
| 10 | 0 |
| 11 | 0 |

| MODE PIN NO. | DC (V) |
|--------------|--------|
| 1 | 21.2 |
| 2 | 9.2 |
| 3 | 0.0 |
| 4 | 9.0 |
| 5 | 2.5 |
| IC9802 | |
| 1 | 21.2 |
| 2 | 5.4 |
| 3 | 0.0 |
| 4 | 5.0 |
| 5 | 2.5 |
| IC9803 | |
| 1 | 15.7 |
| 2 | 5.2 |
| 3 | 0.0 |
| 4 | 4.9 |
| 5 | 2.1 |
| Q9801 | |
| E | 0.0 |
| C | 0.0 |
| B | 0.6 |
| Q9802 | |
| E | 0.0 |
| C | 0.0 |
| B | 0.0 |
| Q9803 | |
| E | 0.0 |
| C | 0.0 |
| B | 0.6 |
| Q9804 | |
| E | 0.0 |
| C | 0.0 |
| B | 3.2 |
| Q9805 | |
| E | 0.0 |
| C | 2.1 |
| B | 0.0 |

| <FRONT SENSOR> | |
|----------------|--------|
| MODE PIN NO. | DC (V) |
| IC8752 | |
| 1 | 3.5 |
| 2 | 5.4 |
| 3 | 0.0 |

| <FRONT CONTROL> | |
|-----------------|--------|
| MODE PIN NO. | DC (V) |
| Q8701 | |
| E | 0 |
| C | 2.4 |
| B | 0 |
| Q8702 | |
| E | 0.0 |
| C | 0.7 |
| B | 0 |
| Q8703 | |
| E | 0 |
| C | 0 |
| B | 0.7 |
| CN300T | |
| 1 | 3.3 |
| 2 | 3.3 |
| 3 | 0 |
| 4 | 0 |
| 5 | 0 |
| 6 | 0 |
| 7 | 0 |
| 8 | 0 |
| 9 | 0 |
| 10 | 0 |

| <VIDEO> | |
|--------------|--------|
| MODE PIN NO. | DC (V) |
| IC3001 | |
| 1 | 0.0 |
| 2 | 3.3 |
| 3 | 3.3 |
| 4 | 0.0 |
| 5 | 1.5 |
| 6 | 2.2 |
| 7 | 0.8 |
| 8 | 0.0 |
| 9 | 0.5 |
| 10 | 0.0 |
| 11 | 0.0 |
| 12 | 2.5 |
| 13 | 1.7 |
| 14 | 0.7 |
| 15 | 0.0 |
| 16 | 0.0 |
| 17 | 3.3 |
| 18 | 3.3 |
| 19 | 0.0 |
| 20 | 0.0 |
| 21 | 0.1 |
| 22 | 0.0 |
| 23 | 3.3 |
| 24 | 1.6 |
| 25 | 0.0 |
| 26 | 1.7 |
| 27 | 3.3 |
| 28 | 0.0 |
| 29 | 1.5 |
| 30 | 0.0 |
| 31 | 1.0 |
| 32 | 3.3 |
| 33 | 0.1 |
| 34 | 3.3 |
| 35 | 0.7 |
| 36 | 0.0 |
| 37 | 1.0 |
| 38 | 3.3 |
| 39 | 0.0 |
| 40 | 3.3 |
| 41 | 1.0 |
| 42 | 0.3 |
| 43 | 0.0 |
| 44 | 0.0 |
| 45 | 0.0 |
| 46 | 0.0 |
| 47 | 3.2 |
| 48 | 0.0 |
| 49 | 0.0 |
| 50 | 0.0 |
| 51 | 0.0 |
| 52 | 0.0 |
| 53 | 0.0 |
| 54 | 0.0 |
| 55 | 0.0 |
| 56 | 0.0 |
| 57 | 0.0 |
| 58 | 0.0 |
| 59 | 3.2 |
| 60 | 3.2 |
| 61 | 2.6 |
| 62 | 3.2 |
| 63 | 0.0 |
| 64 | 0.0 |
| 65 | 0.0 |
| 66 | 1.3 |
| 67 | 0.0 |
| 68 | 0.0 |
| 69 | 0.0 |
| 70 | 0.0 |
| 71 | 0.0 |
| 72 | 0.0 |
| 73 | 0.0 |
| 74 | 0.0 |
| 75 | 0.0 |
| 76 | 0.0 |
| 77 | 0.0 |
| 78 | 3.2 |
| 79 | 0.0 |
| 80 | 0.0 |
| 81 | 0.0 |
| 82 | 0.0 |
| 83 | 0.0 |
| 84 | 0.0 |
| 85 | 0.0 |
| 86 | 0.0 |
| 87 | 0.0 |
| 88 | 0.0 |
| 89 | 0.0 |
| 90 | 0.0 |
| 91 | 0.0 |
| 92 | 0.0 |
| 93 | 0.0 |
| 94 | 0.0 |
| 95 | 0.0 |
| 96 | 0.0 |
| 97 | 0.0 |

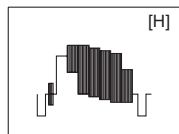
| MODE PIN NO. | DC (V) |
|--------------|--------|
| 98 | 0.0 |
| 99 | 3.2 |
| 100 | 0.0 |
| 101 | 0.0 |
| 102 | 0.0 |
| 103 | 0.0 |
| 104 | 0.0 |
| 105 | 0.0 |
| 106 | 0.0 |
| 107 | 0.0 |
| 108 | 0.0 |
| 109 | 0.0 |
| 110 | 0.0 |
| 111 | 0.0 |
| 112 | 0.0 |
| 113 | 0.0 |
| 114 | 3.2 |
| 115 | 0.0 |
| 116 | 0.0 |
| 117 | 0.0 |
| 118 | 0.0 |
| 119 | 3.2 |
| 120 | 0.0 |
| 121 | 0.0 |
| 122 | 0.0 |
| 123 | 0.0 |
| 124 | 0.0 |
| 125 | 0.0 |
| 126 | 0.0 |
| 127 | 3.2 |
| 128 | 1.7 |
| 129 | 0.0 |
| 130 | 3.2 |
| 131 | 3.2 |
| 132 | 0.0 |
| 133 | 0.0 |
| 134 | 0.0 |

WAVEFORMS

—RECIEVER PWB—

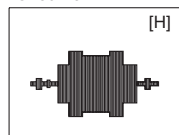
[SHEET1]

TU1101-18

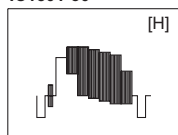


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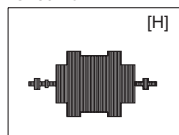
IC1501-5



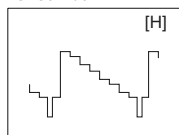
IC1501-30



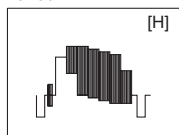
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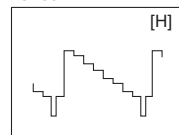
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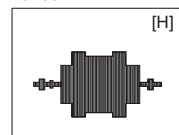
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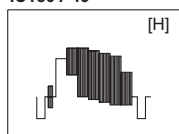
IC1501-44



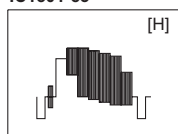
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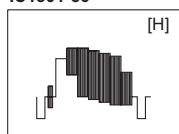
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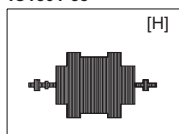
IC1501-53



IC1501-56



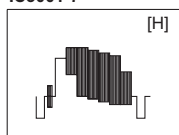
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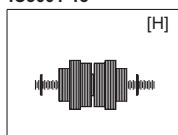
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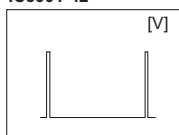
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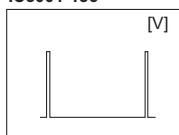
IC3001-13



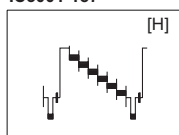
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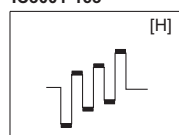
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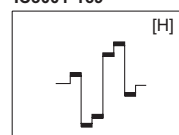
IC3001-157



IC3001-163

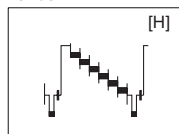


IC3001-169

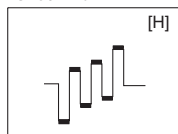


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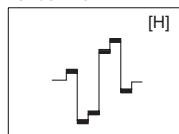
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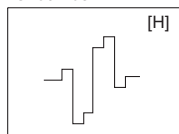
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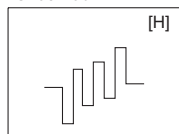
IC1301-18



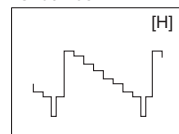
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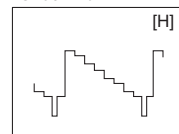
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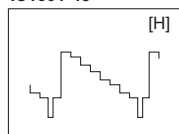
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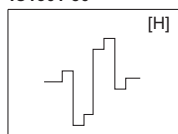
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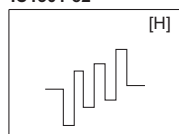
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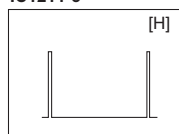
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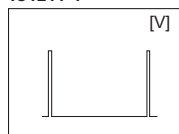
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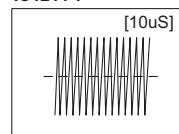
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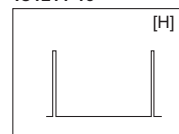
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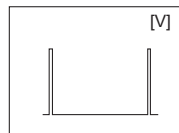
IC1211-7



IC1211-13



IC1211-22





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